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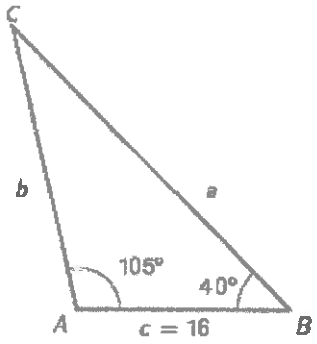
Find all unknown side lengths and angle measures: that is, solve the given triangle. Round all answers to the nearest hundredth, if necessary.



Select the correct answer.

- ○ $a \approx 26.95,\ b \approx 17.92,\ C = 35°$
- ○ $a \approx 26.93,\ b \approx 17.94,\ C = 35°$
- ○ $a \approx 26.93,\ b \approx 17.93,\ C = 35°$
- ○ $a \approx 26.94,\ b \approx 17.94,\ C = 35°$
- ○ $a \approx 26.94,\ b \approx 17.93,\ C = 35°$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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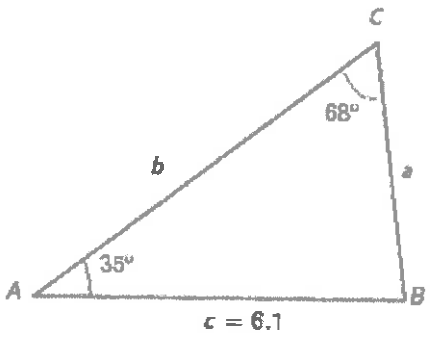
Find all unknown side lengths and angle measures; that is, solve the given triangle. Round all answers to the nearest hundredth, if necessary.



$c = 6.1$

Select the correct answer.

- ○ $a \approx 3.77,\ b \approx 4.45,\ B = 77°$
- ○ $a \approx 1.99,\ b \approx 6.41,\ B = 77°$
- ○ $a \approx 2.53,\ b \approx 7.76,\ B = 77°$
- ○ $a \approx 1.99,\ b \approx 4.45,\ B = 77°$
- ○ $a \approx 3.77,\ b \approx 6.41,\ B = 77°$

Save My Progress

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Save & exit | Submit assignment for grading

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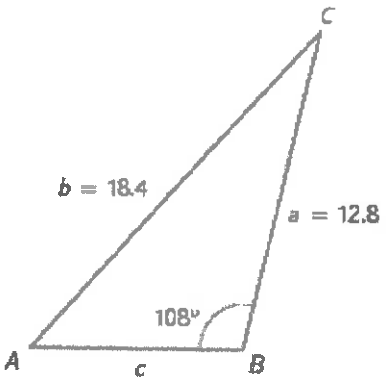
Find all unknown side lengths and angle measures: that is, solve the given triangle. Round all answers to the nearest hundredth, if necessary.



c = ____

A = ____ °

C = ____ °

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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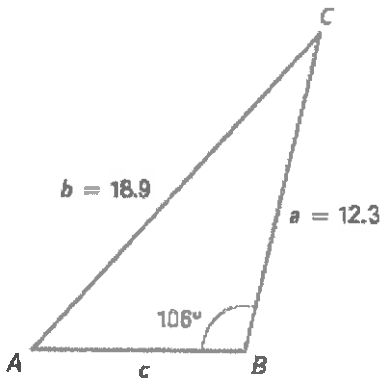
Find all unknown side lengths and angle measures: that is, solve the given triangle. Round all answers to the nearest hundredth, if necessary.



Select the correct answer.

- ○ $c \approx 11.35$, $A \approx 38.73°$, $C \approx 35.27°$
- ○ $c \approx 11.35$, $A \approx 38.72°$, $C \approx 35.28°$
- ○ $c \approx 11.30$, $A \approx 38.74°$, $C \approx 35.26°$
- ○ $c \approx 11.31$, $A \approx 38.70°$, $C \approx 35.30°$
- ○ $c \approx 11.35$, $A \approx 38.67°$, $C \approx 35.33°$

Save My Progress | Enter Answer

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Save & exit | Submit assignment for grading

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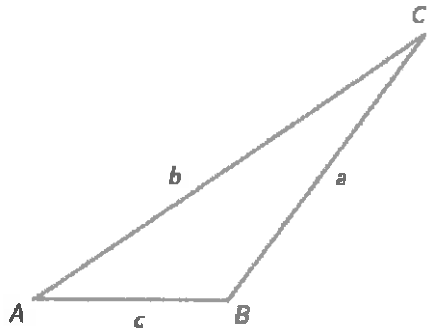
Solve the given triangle. Assume angles A, B, and C and sides a, b, and c are labeled as shown in the figure. Round all answers to the nearest hundredth.

$b = 40,\ A = 26°,\ C = 77°$



Select the correct answer(s).

- ☐ $a \approx 17.95,\ c \approx 40.07,\ B = 77°$
- ☐ $a \approx 18.00,\ c \approx 40.00,\ B = 77°$
- ☐ $a \approx 18.00,\ c \approx 40.07,\ B = 77°$
- ☐ $a \approx 17.95,\ c \approx 40.00,\ B = 77°$
- ☐ No triangle possible.

Save My Progress

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Save & exit | Submit assignment for grading

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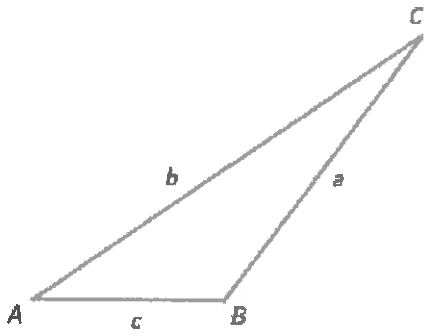
Solve the given triangle. Assume angles A, B, and C and sides a, b, and c are labeled as shown in the figure. Round all answers to the nearest hundredth.

$c = 2.7$, $A = 113°$, $B = 32°$



Select the correct answer(s).

- ☐ $a \approx 4.33$, $b \approx 1.84$, $C = 35°$
- ☐ $a \approx 4.33$, $b \approx 2.49$, $C = 35°$
- ☐ $a \approx 4.40$, $b \approx 1.84$, $C = 35°$
- ☐ $a \approx 4.40$, $b \approx 2.49$, $C = 35°$
- ☐ No triangle possible.

Save My Progress

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Save & exit | Submit assignment for grading

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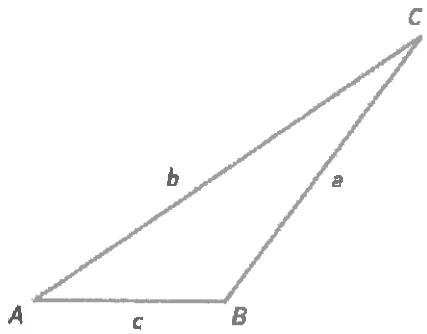
Solve the given triangle. Assume angles A, B, and C and sides a, b, and c are labeled as shown in the figure. Round all answers to the nearest hundredth.

$a = 6.6,\ b = 5.6,\ B = 50°$



Select the correct answer(s).

- ☐ $c \approx 6.65,\ A \approx 64.53°,\ C \approx 65.47°$
- ☐ $c \approx 1.83,\ A \approx 64.53°,\ C \approx 65.47°$
- ☐ $c \approx 1.83,\ A \approx 115.47°,\ C \approx 14.53°$
- ☐ $c \approx 6.65,\ A \approx 115.47°,\ C \approx 14.53°$
- ☐ No triangle possible.

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question

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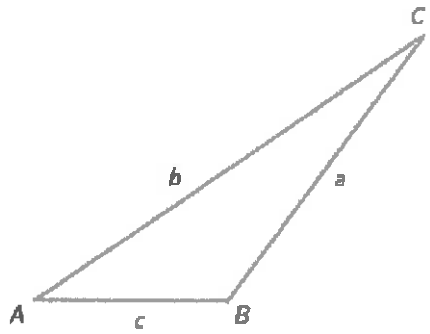
Solve the given triangle. Assume angles A, B, and C and sides a, b, and c are labeled as shown in the figure. Round all answers to the nearest hundredth.

$b = 7,\ c = 4,\ B = 30°$



Select the correct answer(s).

- ☐ $a \approx 10.17,\ A \approx 11.31°,\ C \approx 138.69°$
- ☐ $a \approx 7.78,\ A \approx 133.40°,\ C \approx 16.60°$
- ☐ $a \approx 10.17,\ A \approx 133.40°,\ C \approx 16.60°$
- ☐ $a \approx 7.78,\ A \approx 11.31°,\ C \approx 138.69°$
- ☐ No triangle possible.

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question

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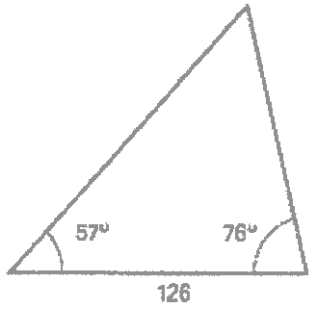
Find the area of the given triangle. Round your answer to the nearest hundredth at the end of the computations.



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Save & exit | Submit assignment for grading

Question | Score:

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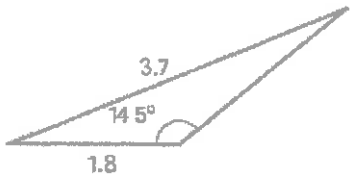
Find the area of the given triangle. Round your answer to four decimal places.



Select the correct answer.

- 1.1030
- 1.0730
- 1.0680
- 1.0760
- 1.0230

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Save & exit | Submit assignment for grading

Question | Score:

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Indicate the maximum number of real zeros of the polynomial $P(x) = ax$.

Indicate the maximum number of turning points.

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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Enter Answer

Indicate the maximum number of real zeros of the polynomial $P(x) = ax^4 + bx^3 + cx^2 + dx$.

Indicate the maximum number of turning points.

Save My Progress

Enter Answer

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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Indicate the maximum number of real zeros of the polynomial $P(x) = ax^7 + bx^6 + cx^5 + dx^4 + ex^3 + fx^2 + gx + h$.

Indicate the maximum number of turning points.

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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Use a graphing calculator to estimate the zeros and the coordinates of the turning points of the polynomial to the nearest hundredth. Classify each turning point as a local maximum or minimum.

$g(x) = x^3 + 8x^2 + 15x - 1$

Estimate the zeros.
If there is more than one solution separate your answers with commas.

$x =$ [ ]

Estimate the coordinates of the local minimum.
Please enter your answer in the form (x, y). If there is more than one minimum separate your answers with commas. If there are no local minimums, answer *none*.

Local minimum: [ ]

Estimate the coordinates of the local maximum.
Please enter your answer in the form (x, y). If there is more than one local maximum separate your answers with commas. If there are no local maximums, answer *none*.

Local maximum: [ ]

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Use a graphing calculator to estimate the zeros and the coordinates of the turning points of the polynomial to the nearest hundredth. Classify each turning point as a local maximum or minimum.

$$g(x) = -\frac{x^3}{4} + 5x^2 - \frac{x}{4} + 1$$

Estimate the zeros.
If there is more than one solution separate your answers with commas.

$x =$

Estimate the coordinates of the local minimum.
Please enter your answer in the form (x, y). If there is more than one minimum separate your answers with commas. If there are no local minimums, answer *none*.

Local minimum:

Estimate the coordinates of the local maximum.
Please enter your answer in the form (x, y). If there is more than one local maximum separate your answers with commas. If there are no local maximums, answer *none*.

Local maximum:

Not answered | Not answered & saved | Answered | Partially answered

Save My Progress

Save & exit | Submit assignment for grading

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Use a graphing calculator to estimate the zeros and the coordinates of the turning points of the polynomial to the nearest hundredth. Classify each turning point as a local maximum or minimum.

$$p(x) = -\frac{x^4}{4} + 2x^3 + \frac{x^2}{2} - 6x$$

Estimate the zeros.
If there is more than one solution separate your answers with commas.

$x =$

Estimate the coordinates of the local minimum.
Please enter your answer in the form (x, y). If there is more than one minimum separate your answers with commas. If there are no local minimums, answer *none*.

Local minimum:

Estimate the coordinates of the local maximum.
Please enter your answer in the form (x, y). If there is more than one local maximum separate your answers with commas. If there are no local maximums, answer *none*.

Local maximum:

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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Use a graphing calculator to estimate the zeros and the coordinates of the turning points of the polynomial to the nearest hundredth. Classify each turning point as a local maximum or minimum.

$h(x) = 0.1x^3 - 0.7x^2 - 4.6x - 3$

Estimate the zeros.
If there is more than one solution separate your answers with commas.

$x =$

Estimate the coordinates of the local minimum.
Please enter your answer in the form (x, y). If there is more than one minimum separate your answers with commas. If there are no local minimums, answer *none*.

Local minimum:

Estimate the coordinates of the local maximum.
Please enter your answer in the form (x, y). If there is more than one local maximum separate your answers with commas. If there are no local maximums, answer *none*.

Local maximum:

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

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The percentage of paper waste remaining after recycling during the years 1960-2000 can be modeled by the polynomial function

$$f(x) = -0.000004x^4 + 0.0007x^3 - 0.0059x^2 - 0.1478x + 18.1$$

where x is the year ($x = 0$ corresponds to 1960) and $f(x)$ is the percentage of waste remaining in that year.

Approximate the coordinates of any turning points. Please round the answer to the nearest tenth. Enter your answer in the form (x, y).

During which years between 1960 and 2000 was recycling increasing? Please round the answers to the nearest year.

from ____ to ____

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Save & exit | Submit assignment for grading

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If f is a sixth-degree polynomial and $f(x) \to \infty$ as $x \to \infty$, then $f(x) \to -\infty$ as $x \to -\infty$.

Answer *true* or *false*.

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question | Score:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

Find the following combination. Specify the restriction(s) on the domain if the domain is anything other than all real numbers.

$f(x) = \sqrt{x - 5}$, $g(x) = x - 7$

$\left(\frac{f}{g}\right)(x)$

Select the correct answer.

- ○ $\left(\frac{f}{g}\right)(x) = \frac{\sqrt{x - 5}}{x - 7}$, $x \geq 5$, $x \neq 7$
- ○ $\left(\frac{f}{g}\right)(x) = \frac{\sqrt{x - 5}}{x - 7}$, $x \geq 5$
- ○ $\left(\frac{f}{g}\right)(x) = \frac{\sqrt{x - 7}}{x - 5}$, $x \geq 5$, $x \neq 7$
- ○ $\left(\frac{f}{g}\right)(x) = \frac{x - 7}{\sqrt{x - 5}}$, $x \geq 5$
- ○ $\left(\frac{f}{g}\right)(x) = \frac{x - 7}{\sqrt{x - 5}}$, $x \geq 5$, $x \neq 7$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 1 ...
dgpc.02.03.06m
Score: 0%

Question
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Save My Progress

Find the following combination. Specify the restriction on the domain if the domain is anything other than all real numbers.

$f(x) = \frac{8}{x}, \; g(x) = 5x$

$(fg)(x)$

Select the correct answer.

- ○ $(fg)(x) = 44, \; x \neq 0$
- ○ $(fg)(x) = \frac{5x^2}{8}, \; x \neq 0$
- ○ $(fg)(x) = 38, \; x \neq 0$
- ○ $(fg)(x) = 40, \; x \neq 0$
- ○ $(fg)(x) = \frac{8}{5x^2}, \; x \neq 0$

Save My Progress

Not answered · Not answered & saved · Answered · Partially answered

Save & exit · Submit assignment for grading

Question | dgpc.02.03 Score:

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Save My Progress

Compute both $(f \circ g)(x)$ and $(g \circ f)(x)$. Specify the domain if it is anything other than all real numbers.

$f(x) = 7x + 4,\ g(x) = 3x - 8$

Select the correct answer.

- ○ $(f \circ g)(x) = 21x - 50;\ (g \circ f)(x) = 21x + 2$
- ○ $(f \circ g)(x) = 21x + 4;\ (g \circ f)(x) = 21x - 52$
- ○ $(f \circ g)(x) = 21x + 50;\ (g \circ f)(x) = 21x + 2$
- ○ $(f \circ g)(x) = 21x - 52;\ (g \circ f)(x) = 21x + 4$
- ○ $(f \circ g)(x) = 21x + 2;\ (g \circ f)(x) = 21x - 50$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question dgpc.02.03.21m
Score: 0%

Question

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Save My Progress

Compute both $(f \circ g)(x)$ and $(g \circ f)(x)$.

$f(x) = 7$, $g(x) = x^2 + 2x + 6$

Select the correct answer.

- ○ $(f \circ g)(x) = 68$; $(g \circ f)(x) = 7$
- ○ $(f \circ g)(x) = 7$; $(g \circ f)(x) = 68$
- ○ $(f \circ g)(x) = 7$; $(g \circ f)(x) = 69$
- ○ $(f \circ g)(x) = 7$; $(g \circ f)(x) = 71$
- ○ $(f \circ g)(x) = 69$; $(g \circ f)(x) = 7$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 5 of
dgpc.02.03.24m
Score: 0% Takes:0

Question

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Save My Progress | Enter Answer

Compute both $(f \circ g)(x)$ and $(g \circ f)(x)$.

$f(x) = |x|$, $g(x) = 5x - 1$

Select the correct answer.

- ○ $(f \circ g)(x) = |5x - 1|$; $(f \circ g)(x) = |5x - 1|$
- ○ $(f \circ g)(x) = 5|x| - 1$; $(f \circ g)(x) = |5x - 1|$
- ○ $(f \circ g)(x) = 5|x| - 1$; $(f \circ g)(x) = 5|x| - 1$
- ○ $(f \circ g)(x) = |5x - 1|$; $(f \circ g)(x) = 5|x| - 1$
- ○ $(f \circ g)(x) = 5x - 1$; $(f \circ g)(x) = 5x - 1$

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Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 6 of 10
dgpc.02.03.31
Score: 0% Takes:0

Question

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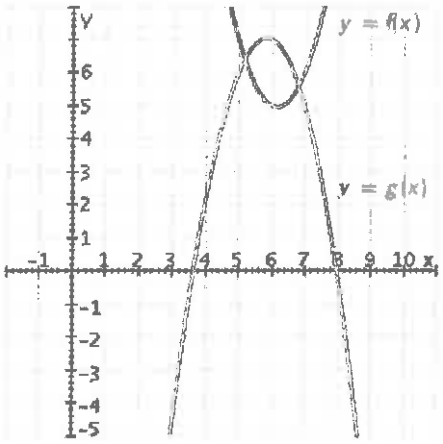
Save My Progress | Enter Answer

Use the given graph of f and g to complete the table.



Please round the answers to the nearest integer.

x	$f(x)$	$g(x)$	$(f \circ g)(x)$	$(g \circ f)(x)$
5				
6				
7				

Save My Progress | Enter Answer

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 7 of 10
dgpc.02.03.36m
Score: 0% Takes:0

Question

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

Save My Progress

This exercise deals with the *iterates* of a function f, which is defined in the following way:

$$f^1(x) = f(x)$$
$$f^2(x) = f(f(x))$$
$$f^3(x) = f(f(f(x)))$$
$$\vdots$$

Thus, the nth iterate of a function f denoted $f^n(x)$, is found by composing f with itself n times. For example if $f(x) = 3x$, then $f^2(x) = f(f(x)) = f(3x) = 3(3x) = 9x$.

If $f(x) = x^7$, find $f^3(x)$.

Select the correct answer.

- ○ $f^3(x) = x^{342}$
- ○ $f^3(x) = x^{343}$
- ○ $f^3(x) = x^{10}$
- ○ $f^3(x) = x^{345}$
- ○ $f^3(x) = x^9$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 8 of 10
dgpc.02.03.39
Score: 0% Takes:0

Save My Progress | Enter Answer

Question
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Simplify the expressions for the function $f(x) = 5x + 4$.

$\frac{f(x) - f(4)}{x - 4} =$ [ ]

$\frac{f(x + h) - f(x)}{h} =$ [ ]

Save My Progress | Enter Answer

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 9 of 10
dgpc.02.03.39m
Score: 0% Takes:0

Question

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Save My Progress

Simplify the expression for the function $f(x) = 2x + 7$.

$$\frac{f(x + h) - f(x)}{h}$$

Select the correct answer.

- ○ 7
- ○ 8h
- ○ 2
- ○ 7h
- ○ 2h

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

You may take this assig

Question

Question 10 of 10
dgpc.02.03.40
Score: 0% Takes:0

Save My Progress

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Simplify the expressions for the function $f(x) = x^2$

$$\frac{f(x) - f(5)}{x - 5} =$$

$$\frac{f(x + t) - f(x)}{t} =$$

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

You may take this assign...

Question | Question 1 of 10 dgpc.02.04.01m Score: 0% Takes:0

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10.

Save My Progress

Determine whether the function f and g are inverses of one another by evaluating $f(g(x))$ and $g(f(x))$.

$f(x) = x + 3$; $g(x) = x - 3$

Select the correct answer.

- ○ not inverses
- ○ inverses

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

You may take this assignm...

Question

Question 2 of 10
dgpc.02.04.06m
Score: 0% Takes:0

1.
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Save My Progress

Determine whether the function f and g are inverses of one another by evaluating $f(g(x))$ and $g(f(x))$.

$f(x) = \sqrt[5]{x - 1}$; $g(x) = x^5 + 1$

Select the correct answer.

- ○ inverses
- ○ not inverses

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

You may take this assignment.

Question | Question 3 of 10 dgpc.02.04.16m Score: 0% Takes:0

Save My Progress

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Determine whether the function is 1-1. Use a graphing calculator as necessary.

$f(x) = x^3 - 9x^2$

Select the correct answer.

- ○ 1-1
- ○ not 1-1

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 4 of 10
dgpc.02.04.21m
Score: 0% Takes:0

Question

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Save My Progress

Determine whether the function f is 1-1. If it is, find $f^{-1}(x)$.

$f(x) = \frac{1}{4}x - 3$

Select the correct answer.

- ○ $f^{-1}(x) = 4(x + 3)$
- ○ $f^{-1}(x) = 4(x - 3)$
- ○ $f^{-1}(x) = 4x + 3$
- ○ $f^{-1}(x) = 4x - 3$
- ○ not 1-1

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question

Question 5 of 10
dgpc.02.04.24m
Score: 0% Takes:0

Save My Progress

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Determine whether the function f is 1-1. If it is, find $f^{-1}(x)$.

$f(x) = \frac{1}{6}x^3$

Select the correct answer.

- $f^{-1}(x) = 1 - \sqrt[3]{6x}$
- $f^{-1}(x) = \frac{1}{6\sqrt[3]{x}}$
- $f^{-1}(x) = \frac{6}{x^3}$
- $f^{-1}(x) = \sqrt[3]{6x}$
- not 1-1

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question 6 :
dgpc.02.04.27m
Score: 0%

Question

1.
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10.

Save My Progress

Determine whether the function f is 1-1. If it is, find $f^{-1}(x)$.

$f(x) = \sqrt{5x + 8}$

Select the correct answer.

- $f^{-1}(x) = 5(x^2 - 8),\ x \geq 0$
- $f^{-1}(x) = \frac{1}{5}(x^2 - 8),\ x \geq 0$
- $f^{-1}(x) = \frac{1}{5}(x^2 + 8),\ x \geq 0$
- $f^{-1}(x) = 5(x^2 + 8),\ x \geq 0$
- not 1-1

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading

Question Score: Save My Progress

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Determine whether the function f is 1-1. If it is, find $f^{-1}(x)$, otherwise enter *none* in each entry.

x	f(x)
0	2
1	- 6
2	- 8
3	- 6
4	5

Select the correct answer.

○a.

x	$f^{-1}(x)$
2	0
- 6	1
- 8	2
- 6	3
5	4

○b.

x	$f^{-1}(x)$
2	4
- 6	3
- 8	2
- 6	1
5	0

○c.

x	$f^{-1}(x)$
2	2
- 6	6
- 8	8
- 6	6
5	5

○d.

x	$f^{-1}(x)$
2	undefined
- 6	1
- 8	2
- 6	3
5	undefined

○e. not 1– 1

Save My Progress

Not answered | Not answered & saved | Answered | Partially answered

Save & exit | Submit assignment for grading