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Precalculus | hw 3.2

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Question	Question 1 of 10 dgpc.03.02.01m Score: <input type="text"/> 0% Takes:0
1.	<p>Use long division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = 7x^2 - 10x - 8$; $d(x) = x - 2$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = x + 4$; $r(x) = x - 7$</p> <p><input type="radio"/> $q(x) = 7x + 4$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = 4x^2 + 7$; $r(x) = 4$</p> <p><input type="radio"/> $q(x) = 4x$; $r(x) = x$</p> <p><input type="radio"/> $q(x) = 6x + 4$; $r(x) = 4$</p>
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Question	Question 2 of 10 dgpc.03.02.03m Score: <input type="text"/> 0% Takes:0
1.	<p>Use long division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = 2x^3 - 5x^2 + 4x - 10$; $d(x) = x^2 + 2$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = 5x - 5$; $r(x) = 5$</p> <p><input type="radio"/> $q(x) = 6x + 4$; $r(x) = x$</p> <p><input type="radio"/> $q(x) = 7x - 4$; $r(x) = 5$</p> <p><input type="radio"/> $q(x) = 4x + 4$; $r(x) = x^2$</p> <p><input type="radio"/> $q(x) = 2x - 5$; $r(x) = 0$</p>
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Question	Question 3 of 10 dgpc.03.02.05m Score: <input type="text"/> 0% Takes:0
1.	<p>Use long division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = 4x^4 - 29x^3 - 5x + 12$; $d(x) = 4x^2 - x + 1$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = x^2 - 10x - 2$; $r(x) = 6$</p> <p><input type="radio"/> $q(x) = x^2 + 7x + 2$; $r(x) = 3$</p> <p><input type="radio"/> $q(x) = x^2 - 7x - 3$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = x^2 - 11x - 2$; $r(x) = 14$</p> <p><input type="radio"/> $q(x) = x^2 - 7x - 2$; $r(x) = 14$</p>
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Question	Question 4 of 10 dgpc.03.02.07m Score: <input type="text"/> 0% Takes:0
1.	<p>Use long division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = x^2 + 6$; $d(x) = x + 1$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = x - 1$; $r(x) = 7$</p> <p><input type="radio"/> $q(x) = x + 1$; $r(x) = 5$</p> <p><input type="radio"/> $q(x) = x - 2$; $r(x) = 2$</p> <p><input type="radio"/> $q(x) = x - 1$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = 2x - 6$; $r(x) = 2$</p>
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Question	Question 5 of 10 dgpc.03.02.11m Score: <input type="text"/> 0% Takes:0
1.	<p>Use long division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = x^5$; $d(x) = x^3 + 4x + 1$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = x^2 + 4$; $r(x) = -5x^2 + 4$</p> <p><input type="radio"/> $q(x) = x^2 - 4$; $r(x) = 16x - 4$</p> <p><input type="radio"/> $q(x) = x^2 - 4x$; $r(x) = -x^2 + 4$</p> <p><input type="radio"/> $q(x) = x^2 + 4$; $r(x) = x^2 + 3x + 4$</p> <p><input type="radio"/> $q(x) = x^2 - 4$; $r(x) = -x^2 + 16x + 4$</p>
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Question	Question 6 of 10 dgpc.03.02.16m Score: <input type="text"/> 0% Takes:0
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4.	Use synthetic division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$. $f(x) = x^3 + 3x^2 - 17x + 6$; $d(x) = x + 6$
5.	Select the correct answer.
6.	<input type="radio"/> $q(x) = x^2 + 3x - 1$; $r(x) = 0$
7.	<input type="radio"/> $q(x) = x^2 + 4$; $r(x) = 0$
8.	<input type="radio"/> $q(x) = x - 3$; $r(x) = 4$
9.	<input type="radio"/> $q(x) = x^2 - 3x + 1$; $r(x) = 0$
10.	<input type="radio"/> $q(x) = x^2 + 3x + 3$; $r(x) = 0$

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Question	Question 7 of 10 dgpc.03.02.20m Score: <input type="text"/> 0% Takes:0
1.	<p>Use synthetic division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = x^2 + 2x$; $d(x) = x - 3$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = x - 5$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = x - 15$; $r(x) = 5$</p> <p><input type="radio"/> $q(x) = 2x + 5$; $r(x) = 2$</p> <p><input type="radio"/> $q(x) = x + 5$; $r(x) = 15$</p> <p><input type="radio"/> $q(x) = 5$; $r(x) = 2x + 15$</p>
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Question	Question 8 of 10 dgpc.03.02.24m Score: <input type="text"/> 0% Takes:0
1.	<p>Use synthetic division to find the quotient $q(x)$ and remainder $r(x)$ when $f(x)$ is divided by $d(x)$.</p> <p>$f(x) = 3x^4 + x^3 - 9x^2 + 1$; $d(x) = x + \frac{1}{3}$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $q(x) = 3x^2 - 3$; $r(x) = 3$</p> <p><input type="radio"/> $q(x) = 3x^3 + 9x - 3$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = 3x^3 - 9x + 3$; $r(x) = 0$</p> <p><input type="radio"/> $q(x) = 3x^3 - 9x - 3$; $r(x) = 6$</p> <p><input type="radio"/> $q(x) = -9x^3 - 6x + 3$; $r(x) = 3$</p>
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<p>Save My Progress  <input type="button" value="Enter Answer"/></p> <p><input checked="" type="checkbox"/> Not answered <input type="checkbox"/> Not answered & saved <input type="checkbox"/> Answered <input type="checkbox"/> Partially answered</p>	

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Question	Question 9 of 10 dgpc.03.02.26m Score: <input type="text"/> 0% Takes:0
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Use the given factor of the polynomial to find the remaining factors, and then identify the zeros.

$x - 1$; $f(x) = x^3 - 2x^2 - 11x + 12$

Select the correct answer.

☐ $f(x) = (x - 1)(x - 4)(x + 3)$
Zeros: 1, 4, -3

☐ $f(x) = (x - 2)(x - 4)(x + 3)$
Zeros: 2, 4, -3

☐ $f(x) = (x - 9)(x + 3)$
Zeros: 9, -3

☐ $f(x) = (x - 1)(x - 9)(x + 3)$
Zeros: 1, 9, -3

☐ $f(x) = (x - 4)(x - 3)$
Zeros: 4, 3

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☐ Not answered ☐ Not answered & saved ☐ Answered ☐ Partially answered

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Question	Question 10 of 10 dgpc.03.02.34m Score: <input type="text"/> 0% Takes:0
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10.	<p>Use synthetic division and the Remainder Theorem to find $f\left(\frac{1}{3}\right)$</p> <p>$f(x) = 4x^3 + 7x^2 - 15x + 4$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $f\left(\frac{1}{3}\right) = -\frac{2}{27}$</p> <p><input type="radio"/> $f\left(\frac{1}{3}\right) = \frac{4}{27}$</p> <p><input type="radio"/> $f\left(\frac{1}{3}\right) = -2$</p> <p><input type="radio"/> $f\left(\frac{1}{3}\right) = 27$</p> <p><input type="radio"/> $f\left(\frac{1}{3}\right) = \frac{8}{27}$</p>

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Save My Progress

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Question

Question 1 of 10

dgpc.07.01.36m

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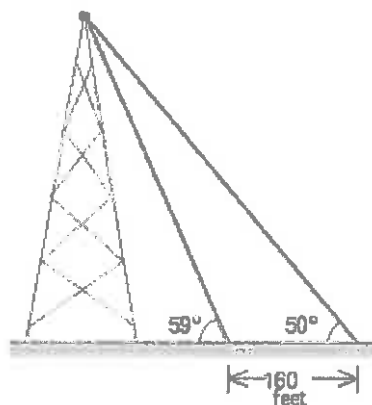
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10.

Two guy wires for a radio tower make angles with the horizontal of 59° and 50° , as shown in the figure below. If the ground anchors for each wire are 160 feet apart, find the length of each wire, assuming the wires are straight, and the height of the tower. Round your answers to the nearest tenth of a foot.



Select the correct answer.

- ☐ The wires are approximately 783.5 and 912.8 feet. The height of the tower is approximately 671.6 feet.
- ☐ The wires are approximately 777.9 and 912.8 feet. The height of the tower is approximately 671.6 feet.
- ☐ The wires are approximately 671.6 and 671.6 feet. The height of the tower is approximately 897.9 feet.
- ☐ The wires are approximately 777.9 and 876.7 feet. The height of the tower is approximately 671.6 feet.
- ☐ The wires are approximately 783.5 and 876.7 feet. The height of the tower is approximately 671.6 feet.

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Question	Question 10 of 10 dgpc.07.06.29m Score: <input type="text"/> 0% Takes:0
1.	<p>Perform the operation $\sqrt{2} \mathbf{v}$</p> <p>$\mathbf{v} = 4\mathbf{i} - \mathbf{j}$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $\sqrt{2}\mathbf{i} + 2\sqrt{2}\mathbf{j}$</p> <p><input type="radio"/> $2\sqrt{2}\mathbf{i} + \sqrt{2}\mathbf{j}$</p> <p><input type="radio"/> $4\sqrt{2}\mathbf{i} - \mathbf{j}$</p> <p><input type="radio"/> $\sqrt{2}\mathbf{i} - 4\sqrt{2}\mathbf{j}$</p> <p><input type="radio"/> $4\sqrt{2}\mathbf{i} - \sqrt{2}\mathbf{j}$</p>
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Question

Question 2 of 10
dgpc.07.02.05m

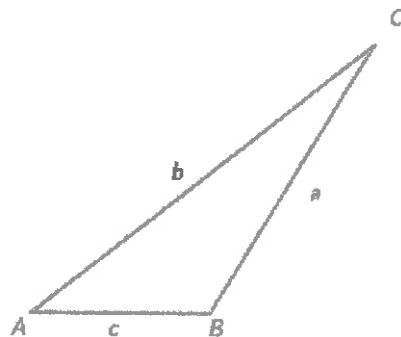
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Use the Law of Cosines to solve the given triangle. Assume angles A , B , and C and sides a , b , and c are labeled as shown in the figure below.

$$b = 26, c = 4, A = 33^\circ$$



Select the correct answer.

- ☐ $a \approx 22.75, B \approx 141.50^\circ, C \approx 5.50^\circ$
- ☐ $a \approx 15.92, B \approx 79.24^\circ, C \approx 7.21^\circ$
- ☐ $a \approx 14.56, B \approx 99.05^\circ, C \approx 3.08^\circ$
- ☐ $a \approx 12.74, B \approx 185.37^\circ, C \approx 3.52^\circ$
- ☐ $a \approx 22.75, B \approx 132.50^\circ, C \approx 14.50^\circ$

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Question

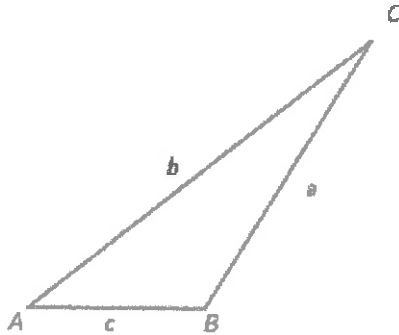
Question 3 of 10
dgpc.07.02.11m

Score: 0% Takes:0

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Solve the given triangle by any means. Assume angles A , B , and C and sides a , b , and c are labeled as shown in the figure below.
 $a = 25$, $b = 45$, $c = 55$



Select the correct answer.

- ☐ $A \approx 28.47^\circ$, $B \approx 55.62^\circ$, $C \approx 95.91^\circ$
- ☐ $A \approx 23.57^\circ$, $B \approx 47.59^\circ$, $C \approx 108.84^\circ$
- ☐ $A \approx 20.50^\circ$, $B \approx 41.41^\circ$, $C \approx 118.09^\circ$
- ☐ $A \approx 26.63^\circ$, $B \approx 53.78^\circ$, $C \approx 99.59^\circ$
- ☐ $A \approx 25.53^\circ$, $B \approx 53.78^\circ$, $C \approx 100.69^\circ$

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Question

Question 4 of 10

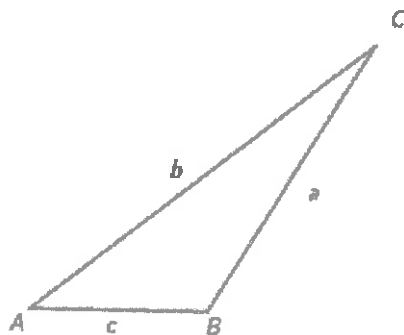
dgpc.07.02.24m

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Solve the given triangle by any means. Assume angles A , B , and C and sides a , b , and c are labeled as shown in the figure below.
 $b = 530$, $c = 470$, $B = 78^\circ$



Select the correct answer.

- ☐ $a \approx 350.60$, $A \approx 22.59^\circ$, $C \approx 45.12^\circ$
- ☐ $a \approx 361.44$, $A \approx 41.84^\circ$, $C \approx 60.16^\circ$
- ☐ $a \approx 531.32$, $A \approx 40.58^\circ$, $C \approx 32.49^\circ$
- ☐ $a \approx 271.08$, $A \approx 61.50^\circ$, $C \approx 58.36^\circ$
- ☐ No triangle possible.

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Question

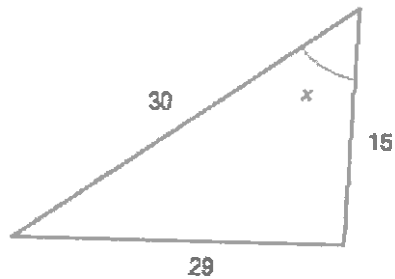
Question 5 of 10
dgpc.07.02.34m

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Find x by any means.



Select the correct answer.

- ☐ $x \approx 91.2^\circ$
- ☐ $x \approx 18.4^\circ$
- ☐ $x \approx 64.6^\circ$
- ☐ $x \approx 110.8^\circ$
- ☐ $x \approx 71.6^\circ$

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Question

Question 6 of 10
dgpc.07.02.42m

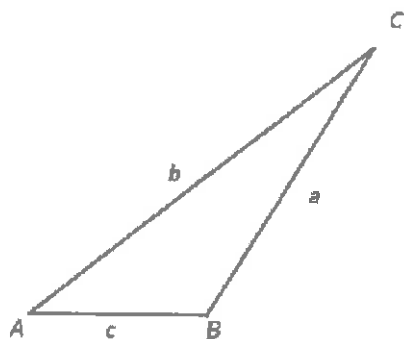
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Use Heron's Formula to find the area of the given triangle. Assume angles A , B , and C and sides a , b , and c are labeled as shown in the figure below.

$$a = 17, b = 12, c = 9$$



Select the correct answer.

- ☐ Area \approx 51.58
- ☐ Area \approx 50.54
- ☐ Area \approx 51.06
- ☐ Area \approx 56.73
- ☐ Area \approx 39.71

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Question 7 of 10

Question	Question 7 of 10 dgpc.07.02.47m Score: <input type="text"/> 0% Takes:0
1.	<p>Two ships leave port at the same time. One travels in the direction $N 35^\circ E$ at a rate of 20 miles per hour. The other travels in the direction $S 75^\circ E$ at the rate of 25 miles per hour. How far apart are the ships after 90 minutes?</p> <p>Select the correct answer.</p> <p><input type="radio"/> Approximately 39.2 miles</p> <p><input type="radio"/> Approximately 26.5 miles</p> <p><input type="radio"/> Approximately 13.9 miles</p> <p><input type="radio"/> Approximately 55.5 miles</p> <p><input type="radio"/> Approximately 47.3 miles</p>
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Question

Question 8 of 10

dgpc.07.05.09m

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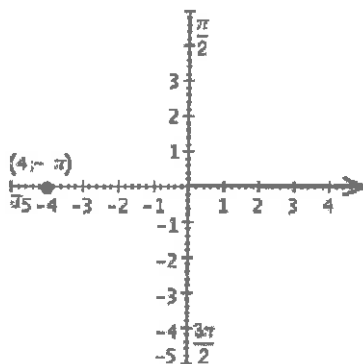
10.

Plot the point given in polar coordinates and find the corresponding rectangular coordinates.

$(4; -\pi)$

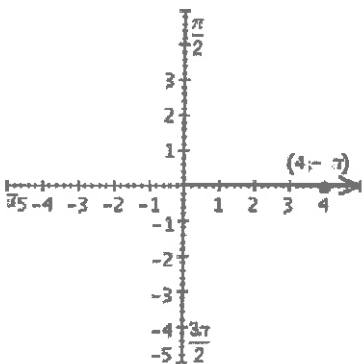
Select the correct answer.

☐ a.



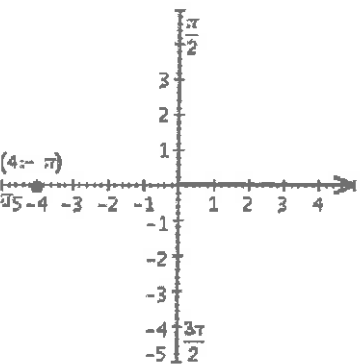
$(-4, 0)$

☐ b.



$(4, 0)$

☐ c.



$(4, 0)$

☐ d.

☐ Not answered ☐ Not answered & saved ☐ Answered ☐ Partially answered

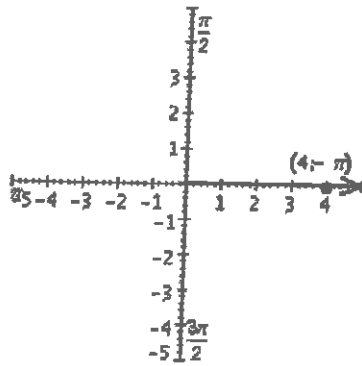
Question

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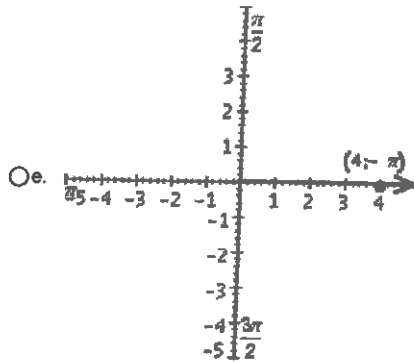
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$(-4, 0)$



e.

$(0, -4)$

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Question 9 of 10

dgpc:07.05.26m

Score: 0% Takes:0

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Return to Assignment

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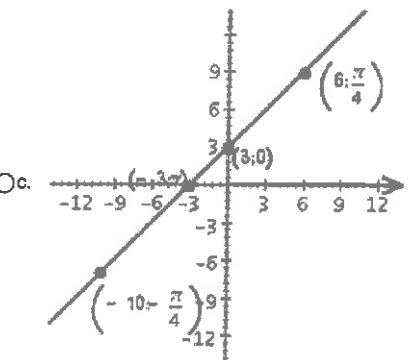
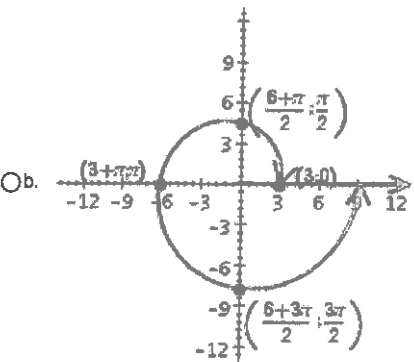
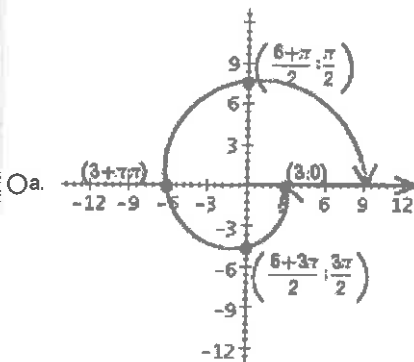
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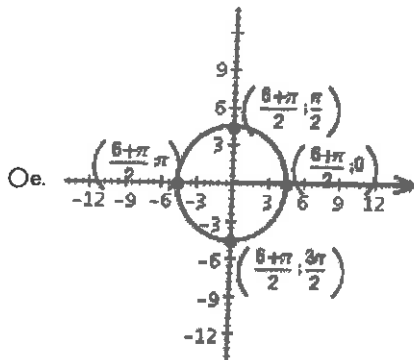
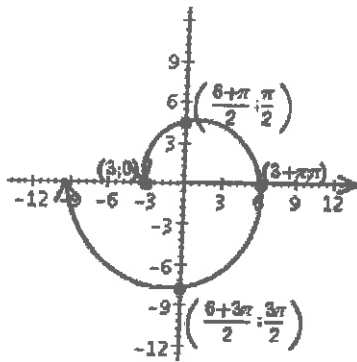
Find and plot at least four points satisfying the given polar equation, and then sketch the graph of the equation.

$$r = 3 + \theta, \theta \geq 0$$

Select the correct answer.



☐ d.



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Question

Question 1 of 10
dgpc.05.01.16m

Score: 10% Takes:0

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Find two coterminal angles (one positive and one negative) for the given angle.

$$-\frac{\pi}{8}$$

Select the correct answer.

☐ $\frac{15\pi}{8}, -\frac{9\pi}{8}$

☐ $\frac{7\pi}{8}, -\frac{9\pi}{8}$

☐ $\frac{15\pi}{8}, -\frac{17\pi}{8}$

☐ $\frac{15\pi}{8}, -\frac{7\pi}{8}$

☐ $\frac{7\pi}{8}, -\frac{17\pi}{8}$

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Question	Question 3 of 10 dgpc.05.01.54m Score: <input type="text"/> 10% Takes:0	Save & exit	Submit assignment for grading
1.	<p>For the central angle $\theta = 300^\circ$ in a circle of radius $r = 8$ feet, find the length of the arc subtended by θ.</p> <p>Select the correct answer.</p> <p><input type="radio"/> $\frac{49\pi}{3}$ feet</p> <p><input type="radio"/> $\frac{43\pi}{3}$ feet</p> <p><input type="radio"/> $\frac{52\pi}{3}$ feet</p> <p><input type="radio"/> $\frac{40\pi}{3}$ feet</p> <p><input type="radio"/> $\frac{46\pi}{3}$ feet</p>	Save My Progress	<input type="text"/>
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Question	Question 6 of 10 dgpc.05.04.48m Score: <input type="text"/> 10% Takes:0
1.	<p>Use a graphing calculator to determine whether the following is an identity (true for all values of x) or not an identity.</p> <p>$\sin 4x = 4 \sin 2x \cos 2x$</p> <p>Select the correct answer.</p> <p><input type="radio"/> Identity</p> <p><input type="radio"/> Not an identity</p>
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Enter Answer

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Question	Question 7 of 10 dgpc.05.06.10m Score: <input type="text"/> 10% Takes: 0
1.	<p>Find the exact value of the given quantity.</p> <p>$\arctan \frac{\sqrt{3}}{3}$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $-\frac{\pi}{6}$</p> <p><input type="radio"/> $\frac{\pi}{3}$</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> $\frac{\pi}{6}$</p> <p><input type="radio"/> $-\frac{\pi}{3}$</p>
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Question	Question 8 of 10 dgpc.05.06.25m Score: <input type="text"/> 10% Takes:0
1.	<p>Find the exact value of the given quantity.</p> <p>$\sin\left(\arcsin \frac{1}{9}\right)$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $\pi - \frac{1}{9}$</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> $-\frac{1}{9}$</p> <p><input type="radio"/> $\frac{1}{9}$</p> <p><input type="radio"/> $\pi + \frac{1}{9}$</p>
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Question	Question 9 of 10 dgpc.05.06.27m Score: <input type="text"/> 10% Takes:0
1.	<p>Find the exact value of the given quantity.</p> <p>$\arctan\left[\tan\left(-\frac{\pi}{3}\right)\right]$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $\frac{\pi}{3}$</p> <p><input type="radio"/> $\frac{2\pi}{3}$</p> <p><input type="radio"/> $-\frac{\pi}{3}$</p> <p><input type="radio"/> $-\frac{2\pi}{3}$</p> <p><input type="radio"/> $\frac{4\pi}{3}$</p>
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Question	Question 10 of 10 dgpc.05.06.38m Score: <input type="text"/> 10% Takes:0
1.	<p>Find the exact value of the given quantity.</p> <p>$\cos(\tan^{-1} 6)$</p> <p>Select the correct answer.</p> <p><input type="radio"/> $-\frac{\sqrt{37}}{37}$</p> <p><input type="radio"/> 37</p> <p><input type="radio"/> $\frac{1}{37}$</p> <p><input type="radio"/> $\frac{\sqrt{37}}{37}$</p> <p><input type="radio"/> $-\frac{1}{37}$</p>
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<p>Save My Progress </p> <p>Save My Progress </p> <p><input type="checkbox"/> Not answered <input type="checkbox"/> Not answered & saved <input type="checkbox"/> Answered <input type="checkbox"/> Partially answered</p>	

Save & exit

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