Take Test: W2 Assignment

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Save All Answers | **Save and Submit**

QUESTION 1 — **5 points** | Save Answer

Determine which of the following points lies on the graph of the equation:

$y = \sqrt{x + 25}$

- (0,7)
- (0,6)
- (0,5)
- (6,5)
- (1,5)

Question Completion Status:

QUESTION 2 — **5 points** | Save Answer

Complete the table. Use the resulting solution points to sketch the graph of the equation.

$y = \frac{3}{4}x - 1$

x	-4	0	8	12	16
y					
(x,y)					

x	-4	0	8	12	16
y	-4	-1	5	8	11
(x,y)	$(-4,-4)$	$(-1,0)$	$(8,5)$	$(12,8)$	$(16,11)$

x	-4	0	8	12	16
y	-4	-1	5	8	11
(x,y)	$(-4,-4)$	$(0,-1)$	$(5,8)$	$(12,8)$	$(11,16)$

x	-4	0	8	12	16
y	-4	-1	5	8	11
(x,y)	$(-4,-4)$	$(-1,0)$	$(5,8)$	$(12,8)$	$(16,11)$

x	-4	0	8	12	16
y	-4	-1	5	8	11
(x,y)	$(-4,-4)$	$(0,-1)$	$(8,5)$	$(12,8)$	$(16,11)$

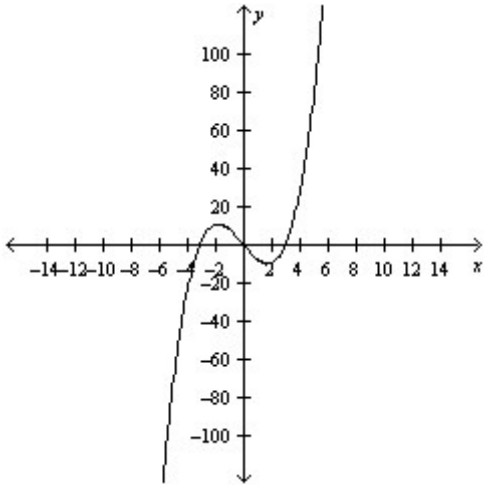
x	-4	0	8	12	16
y	-4	5	-1	8	11
(x,y)	$(-4,-4)$	$(0,5)$	$(8,-1)$	$(12,8)$	$(16,11)$

QUESTION 3

5 points Save Answer

Graphically estimate the x- and y- intercepts of the graph.

$y = x^3 - 9x$



- x-intercept: (±3,0),(0,0)
  y-intercept: (0,0)
- x-intercept: (3,0),(0,0)
  y-intercept: (0,0)
- x-intercept: (-3,0),(0,0)
  y-intercept: (0,0)
- x-intercept: (0,±3),(0,0)
  y-intercept: (0,0)
- x-intercept (0,3),(0,0)
  y-intercept (0,0)

QUESTION 4

5 points Save Answer

Find the x- and y-intercepts of the graph of the equation

$y=49-7x$

- x-intercept: (7,0)
  y-intercept: (0,-7)
- x-intercept: (49,0)

y-intercept: (0,7)

- x-intercept: (-7,0)
  y-intercept: (0,-49)
- x-intercept: (49,0)
  y-intercept: (0,49)
- x-intercept: (7,0)
  y-intercept: (0,49)

QUESTION 5

5 points Save Answer

Determine whether the value of x=7 is a solution of the equation:

$$7+\frac{1}{x+2}=8$$

- no
- yes

QUESTION 6

5 points Save Answer

Solve the equation 8-5x=6

- $-\frac{4}{5}$
- $-\frac{28}{5}$
- $\frac{2}{5}$
- $-\frac{14}{5}$
- $-\frac{2}{15}$

QUESTION 7

5 points Save Answer

Solve the equation and check your solution.

-2-4x=30

- 9
- -11
- -8
- 7
- -10

QUESTION 8

5 points Save Answer

Solve the equation and check your solution.

5y + 1 = 6y - 5 + 8y

- $^{2}/_{3}$
- $^{3}/_{2}$
- $^{6}/_{5}$
- $^{5}/_{6}$
- $-^{2}/_{3}$

QUESTION 9

5 points Save Answer

Solve the equation and check your solution.

67x - 24 = 3x + 8(8x-3)

- 3
- 67
- -3
- -67
- All real numbers

QUESTION 10

5 points Save Answer

Solve the equation and check your solution.

$$\frac{5x}{2} - \frac{x}{6} = 14$$

- 10
- 6
- 7
- 9
- 8

QUESTION 11 **5 points** Save Answer

Solve the equation and check your solution. (If not possible, explain why.)

$$\frac{(5x-2)}{(5x+2)} = \frac{2}{3}$$

- 2
- 5
- 6
- 4
- 10

QUESTION 12 **5 points** Save Answer

Solve the equation and check your solution. (If not possible, explain why)

$$\frac{x}{x+9} + \frac{9}{x+9} + 2 = 0$$

- -18
- 7
- 11

- No solution. The variable is divided out.
- 20

QUESTION 13

5 points Save Answer

Write the quadratic equation in general form.

$4x^2 = 8 - 9x$

- $4x^2 + 9x + 8 = 0$
- $4x^2 + 9x = -8$
- $4x^2 - 9x - 8 = 0$
- $-4x^2 + 9x - 8 = 0$
- $4x^2 + 9x - 8 = 0$

QUESTION 14

5 points Save Answer

Solve the quadratic equation by factoring.

$x^2 - 6x + 5 = 0$

- -1, 5
- -1,-5
- 1,-5
- 1,5
- 6,5

QUESTION 15

5 points Save Answer

Solve the quadratic equation by factoring.

$x^2 + 8x + 16 = 0$

- 4
- $-1/4$
- -4

- ±4
- $^1/_4$

QUESTION 16

5 points Save Answer

Solve the equation by extracting square roots.

$(x+6)^2 = 5$

- $6 + \sqrt{5}$
- $-6 \pm \sqrt{5}$
- $-6 -\sqrt{5}$
- $6 \pm \sqrt{5}$
- $-6 + \sqrt{5}$

QUESTION 17

5 points Save Answer

Use the Quadratic Formula to solve

$x^2 + 20x + 98 = 0$

- $x = -8, x = -12$
- $x = -\sqrt{2} - 10, x = \sqrt{2} - 10$
- $x = -\sqrt{3} - 10, x = \sqrt{3} - 10$
- $x = 10, x = -10$
- $x = -\sqrt{2} - 9, x = \sqrt{2} - 9$

QUESTION 18

5 points Save Answer

Write the complex number in standard form.

$\sqrt{-9}$

- 3i
- -3i
- 9i

- 4i
- -9i

QUESTION 19

5 points Save Answer

Find real numbers a and b such that the equation is true.

a + bi = 14 + 2i

- a=16, b=4
- a=18, b=6
- a=14, b=2
- a=15, b=14
- a=17, b=5

QUESTION 20

5 points Save Answer

Find all solutions to the following equation.

$$\sqrt{4x-8} = \sqrt{4x+9}$$

- x = $-17/4$
- x=9
- no solution
- x=-17
- x=-8

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers **Save and Submit**