

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra 1 Chapter 8 Pretest

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1 Is  $(5, -1)$  a solution of the equation  $x - y = 4$ ?

- A. Yes
- B. No

2 Which ordered pair is a solution to the equation  $3m - 2n = 6$ ?

- A.  $(0, 3)$
- B.  $(5/3, -1/2)$
- C.  $(-3, 0)$
- D.  $(7, 0)$

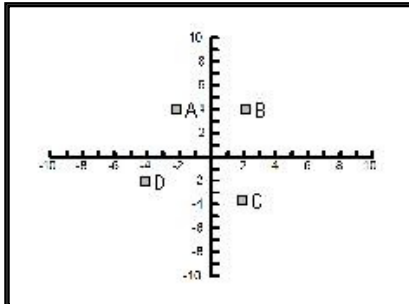
3 Solve the equation for  $y$  in terms of  $x$ :  $3x + 2y = 8$

- A.  $x = 2y - 8$
- B.  $x = -2y/3 + 8/3$
- C.  $y = -3x + 8$
- D.  $y = -3x/2 + 4$

4 Mr. McDonald spent \$280 for some baby pigs and chickens. The pigs cost \$40 each and the chickens cost \$3 each. If he bought more than one pig, how many pigs and chickens did he buy?

- A. 4 pigs, 40 chickens
- B. 10 pigs, 10 chickens
- C. 40 pigs, 4 chickens
- D. 1 pig, 1 chicken

5 Which letter represents the point  $(-2, 4)$ ?



- A. A
- B. B
- C. C
- D. D

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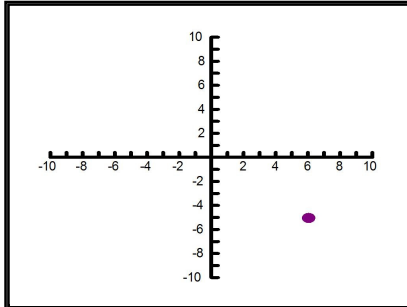
Date: \_\_\_\_\_

Algebra 1 Chapter 8 Pretest

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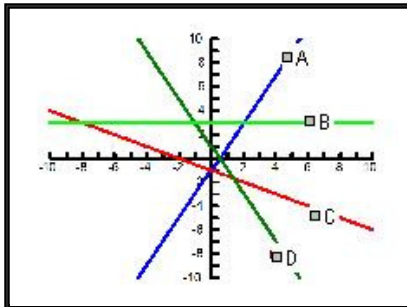
State the quadrant the point lies in.



- A. Quadrant I
- B. Quadrant II
- C. Quadrant III
- D. Quadrant IV

7

Identify the graph of the line  $y=2x-1$ .



- A. A
- B. B
- C. C
- D. D

8

Find the slope of the line through the points  $(1,6)$  and  $(3,-2)$ .

- A.  $-1/4$
- B.  $1/4$
- C.  $-4$
- D.  $4$

9

Find the slope of the line  $6x-2y=14$ .

- A.  $-3$
- B.  $-2$
- C.  $3$
- D.  $6$

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Algebra 1 Chapter 8 Pretest

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- 10 The slope of a horizontal line is:  
A. -1  
B.  $\emptyset$   
C. 1  
D. undefined
- 11 The slope of a vertical line is:  
A. -1  
B.  $\emptyset$   
C. 1  
D. undefined
- 12 State the slope and y-intercept of the equation  $y=3x-4$ .  
A.  $m=3, b=-4$   
B.  $m=-4, b=3$   
C.  $m=3/4, b=1$   
D.  $m=3x, b=4$
- 13 Select the pair of parallel lines from the given choices.  
A.  $y=5x-1, y=-5x-1$   
B.  $y=4x-2, y=6x-2$   
C.  $y=-3x-4, y=x/3+2$   
D.  $y=2x+3, y=2x-5$
- 14 Write the equation of the line with slope -4 and y-intercept 5.  
A.  $y=-4x+5$   
B.  $y=5x-4$   
C.  $y=-45x$   
D.  $y=-5x/4$
- 15 Write the equation of a line passing through the points (1,1) and (2,4).  
A.  $y=3x$   
B.  $y=2x-3$   
C.  $y=x+6$   
D.  $y=3x-2$

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Date: \_\_\_\_\_

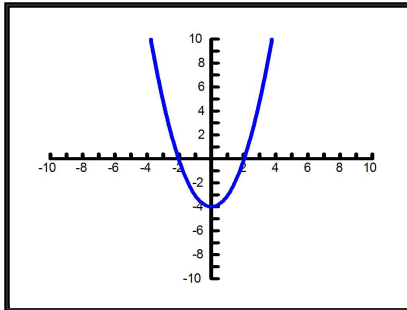
Algebra 1 Chapter 8 Pretest

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16 Evaluate  $f(x)=5x-9$  for  $x=3$ .

- A. -4
- B. -1
- C. 3
- D. 6

17 What are the coordinates of the vertex of the following graph?



- A.  $(0, -4)$
- B.  $(2, 0)$
- C.  $(-2, 0)$
- D.  $(4, 10)$

18 Find the constant of variation when  $y$  varies directly as  $x$ , and  $y=9$  when  $x=54$ .

- A. 9
- B.  $1/6$
- C. 6
- D. -6

19 Ms. FastFood's wages are directly proportional to the hours that she works. If she earns \$100 for 5 hours, how much will she earn for 18 hours?

- A. \$200
- B. \$360
- C. \$500
- D. \$1800

20 Three friends on a beach trip pay \$100 each to share rent of a house. The cost per person varies inversely as the number of people sharing the rent. How many people would have to share the rent of the cottage to make the cost \$60 per person?

- A. 2
- B. 3
- C. 5
- D. 6