MIAMI DADE COLLEGE
INTERAMERICAN CAMPUS
DEPARTMENT OF MATHEMATICS
MAT 0020
STUDY GUIDE
GRAPHING LINEAR EQUATIONS AND INEQUALITIES

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Determine whether the ordered pair is a solution of the equation. Assume that the ordered pair is of the form (x, y).

1) $-9x + 12y = 39$; $(-3, 1)$

A) No B) Yes

Use the given equation to find the missing member of the ordered pair. Assume that the ordered pair is of the form (x, y).

2) $y = -x - 15$ $(-6, \ )$

A) $(-6, 9)$ B) $(-6, 8)$ C) $(-6, -8)$ D) $(-6, -9)$

Use the given equation to find the missing member of each of the given ordered pairs. Assume the ordered pairs are in the form (x, y).

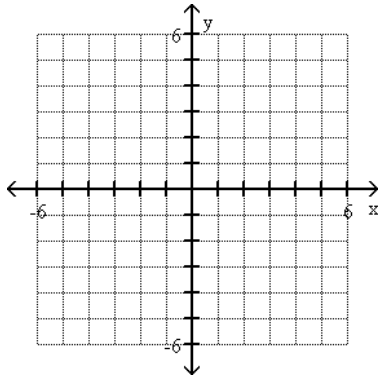
3) $y = -x - 12$; $(\ , -4)$, $(\ , 0)$, $(\ , -12)$

A) $-8; -4; -12$ B) $-8; -10; 0$ C) $-8; -12; 0$ D) $-8; -12; -4$

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Plot the ordered pairs on the rectangular coordinate system provided.

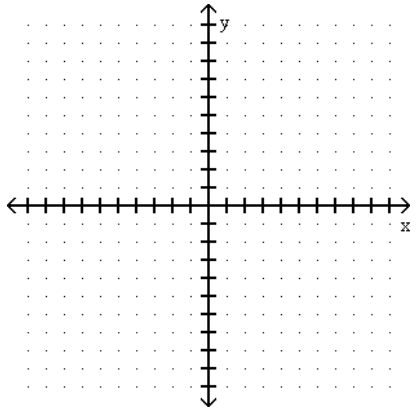
4) A(4, 1), B(-1, 6)



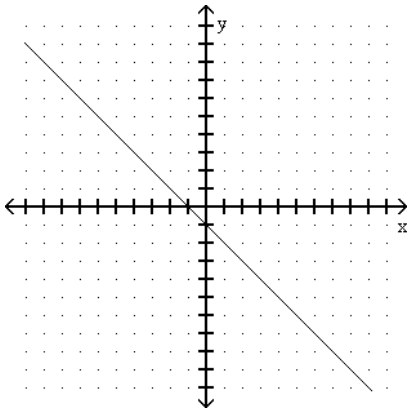
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Draw the graph of the line having the specified x- and y-intercepts.

5) (1, 0) (0, -1)



A)



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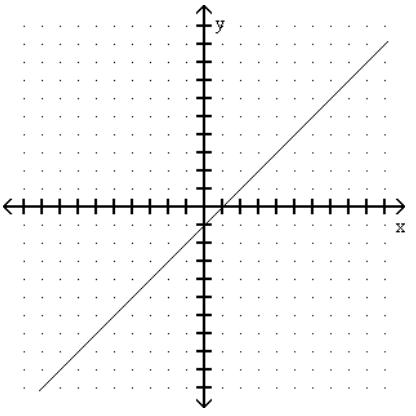
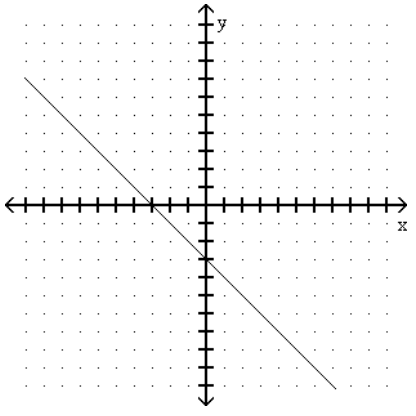
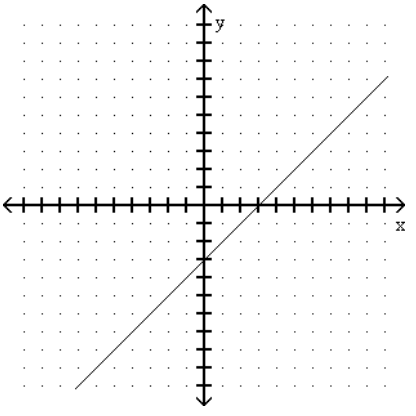


C)

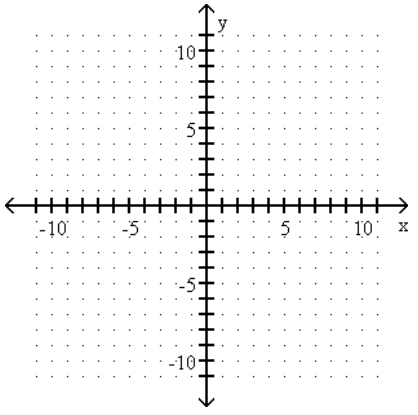


D)

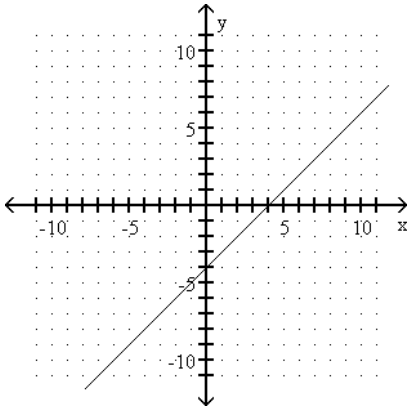


Graph the equation.

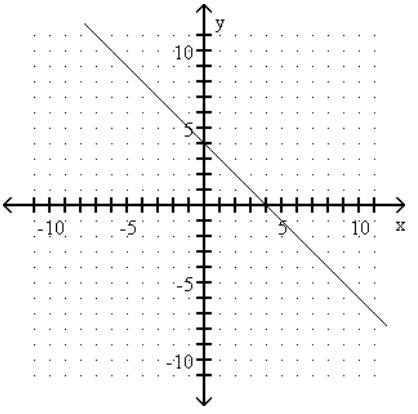
6) $y = -4 - x$



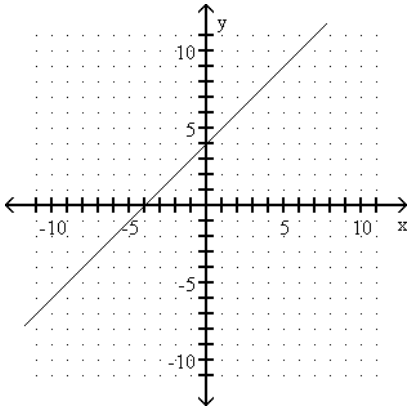
A)



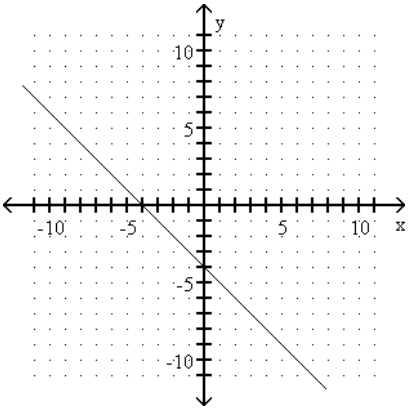
B)



C)



D)



Find the x- and y- intercepts.

7) $7x + 5y = 35$

A) (5, 0), (0, 7) B) (5, 0), (0, -7) C) (-5, 0), (0, -7) D) (7, 0), (0, 5)

8) $-x + \frac{2}{5}y = -2$

A) (2, 0), (0, -5) B) (2, 0.5), (0, -5) C) (5, 0), (0, -2) D) (-2, 0), (0, -5)

9) x = 3

A) (3, 0), no y-intercept
B) (-3, 0), no y-intercept
C) No x-intercept, no y-intercept
D) No x-intercept, (0, 3)

10) y = -2

A) No x-intercept, (0, 2)
B) No x-intercept, no y-intercept
C) No x-intercept, (0, -2)
D) (-2, 0), no y-intercept