Slope, Intercepts, and Graphing Equations Exam

Name:_____ Coach Larry

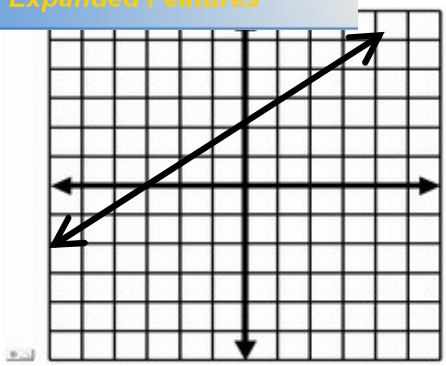
Pd:____ Date:_____

y-int (0, 2)

B) x-int (-3, 0)
y-int (0, 2)

C) x-int (2, 0)
y-int (0, 3)

D) x-int (2, 0)
y-int (0, -3)



2. Which is the following equation rewritten in slope-intercept form: -8x = 2 ï 2y

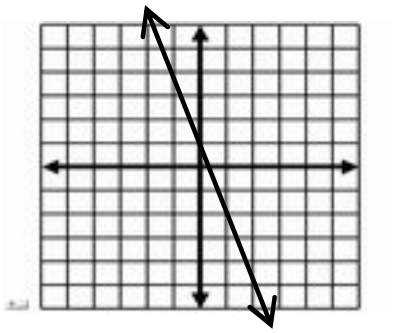
A) $y = \frac{1}{4}x + 1$

B) y = 4x + 1

C) y = -4x + 1

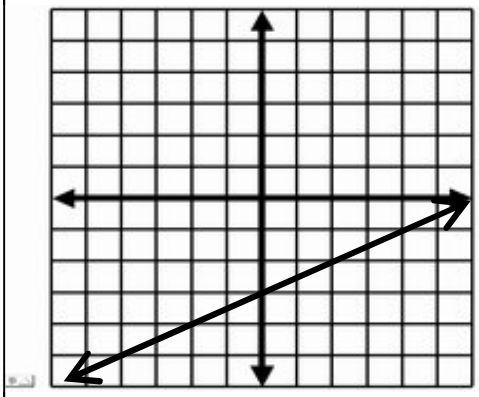
D) y = -4x ï 1

3. Which is **true** about the given line?



A) Its slope is -3 and goes through (2, 5).
B) Its slope is -1/3 and goes through (2, -5).
C) Its slope is -3 and goes through (2, -5).
D) Its slope is -1/3 and goes through (-5,2).

4. What is the equation of the given graph?



A) y = -2x ï 3

B) $y = ï \frac{1}{2}x + 3$

C) y = 2x ï 3

D) $y = \frac{1}{2}x ï 3$

5. Which equation has a slope of $\frac{1}{4}$ and a y-intercept of 3?

A) $\frac{1}{4}x + 3y = 1$ B) $y = \frac{1}{4}x + 3$

C) $\frac{1}{4}x = y + 3$ D) $y = 3x + \frac{1}{4}$

6. Find the slope of the given points (3, 4) and (7, -4).

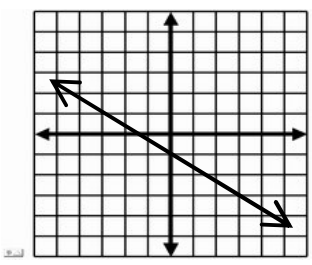
A) $ï \frac{1}{2}$

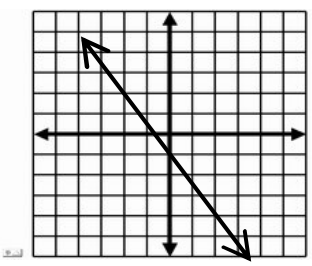
B) 2

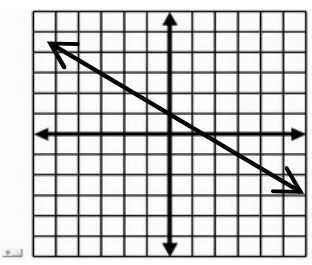
C) -2

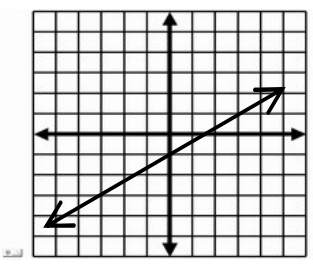
D) 0

7. Which of the following best presents the graph of a line with a slope of $ï \frac{2}{3}$ and a y-intercept of -1?

A) 

B) 

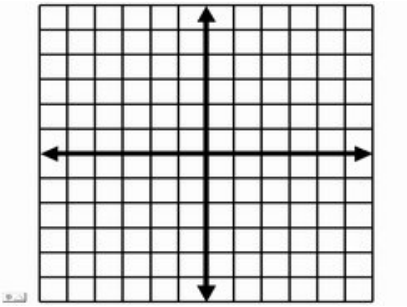
C) 

D) 

5?

A) x-intercept (0, -3), y-intercept (5, 0)
B) x-intercept (-3, 0), y-intercept (0, 5)
C) x-intercept (0, 5), y-intercept (-3, 0)
D) x-intercept (5, 0), y-intercept (0, -3)

9. Graph a line with a slope of 2 and goes through the point (-1, 3).



10. Given 8x + 4y = 4, identify the slope and y-intercept.

A) Slope = -2 and y-int = 1

B) Slope = ï $\frac{1}{2}$ and y = 1

C) Slope = 1 and y-int = -2

D) Slope = 2 and y-int = 1

11. What is the slope of the given points (0, -1) and (-2, -4)?

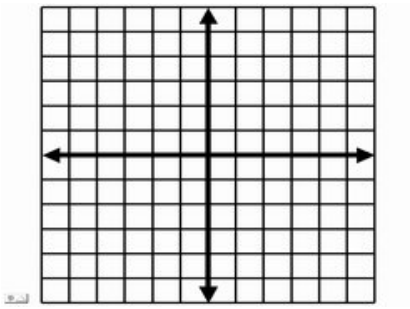
A) ï $\frac{3}{2}$

B) ï $\frac{2}{3}$

C) $\frac{2}{3}$

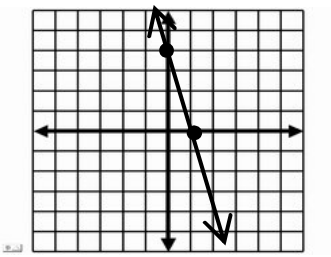
D) $\frac{3}{2}$

12. Graph the equation y = ï $\frac{2}{5}$ x.

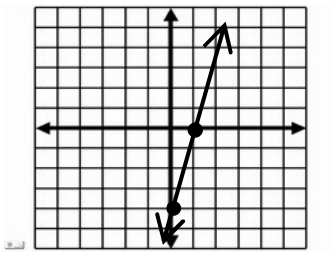


13. Which graph represents the x & y-intercepts for 2y = 8 ï 8x?

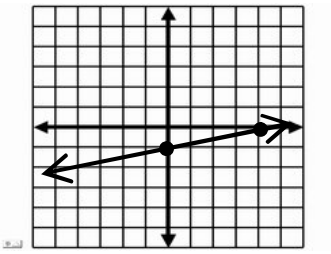
A)



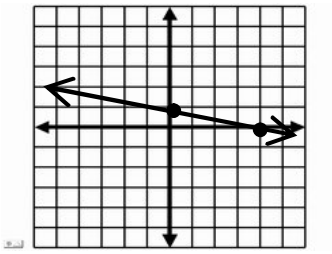
B)



C)

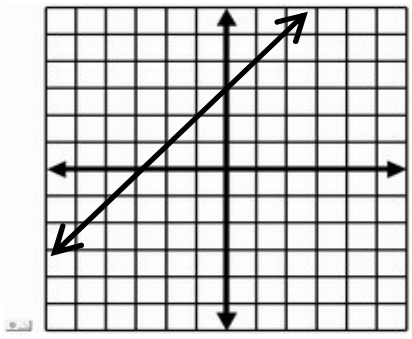


D)



14. What is the slope of the given graph?

A) ï 1
B) 1
C) 0
D) 3

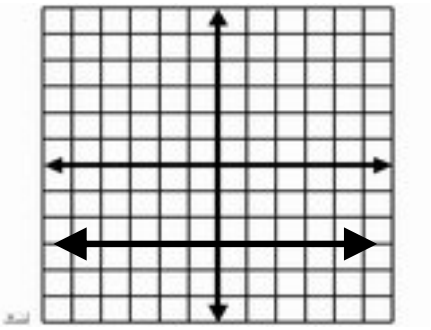


C) $\frac{14}{10}$

D) $\frac{10}{-4}$

16. What is the equation of the given graph?

A) x = -3
B) x = 3
C) y = -3
D) y = -3x
E) y = 3



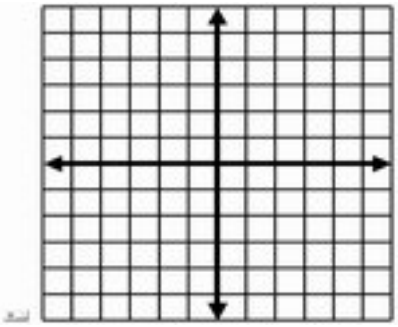
17. Which are the x and y-intercepts for the given linear equation?

$$4x = y + 8$$

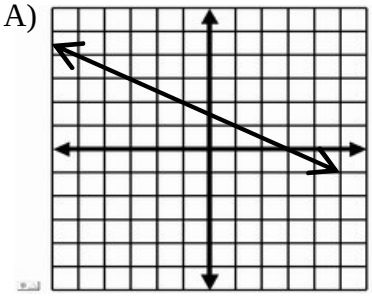
A) x-intercept (-2, 0), y-intercept (0, 8)
B) x-intercept (2, 0), y-intercept (0, -8)
C) x-intercept (-2, 0), y-intercept (0, -8)
D) x-intercept (2, 0), y-intercept (0, 8)

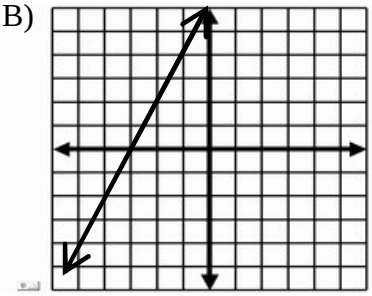
18. Graph the equation using its slope and y-intercept.

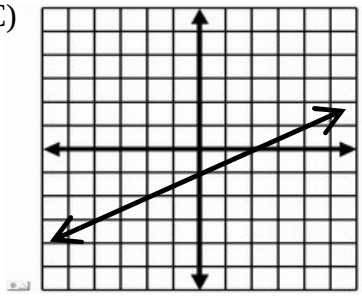
$3y = -6 + x$

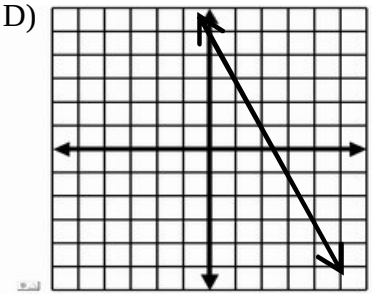


19. Which graph has the slope = ï $\frac{1}{2}$?

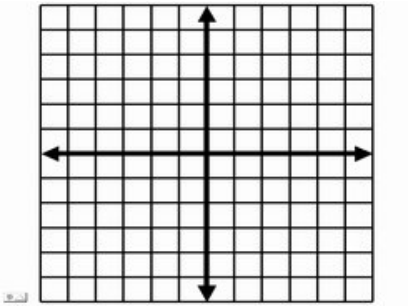
A) 

B) 

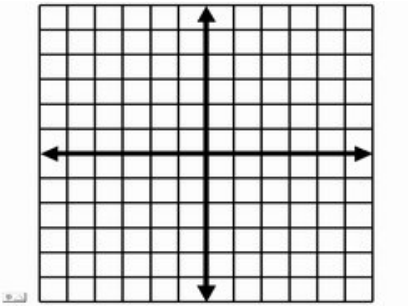
C) 

D) 

20. Graph a line with an undefined slope and goes through the point (2, -4).

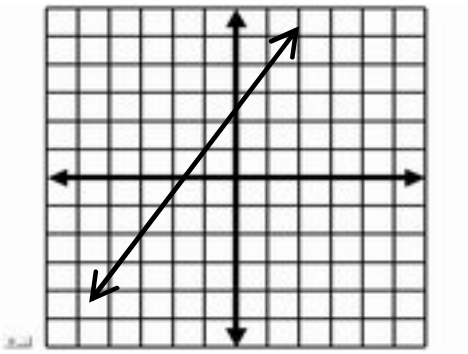


21. Graph the equation y = -x + 3.



A) x-int (-9, 0) & y-int (0, 6)
B) x-int (9, 0) & y-int (0, 6)
C) x-int (-4, 0) & y-int (0, 6)
D) x-int (4, 0) & y-int (0, 6)

23. Which is **true** about the given line?

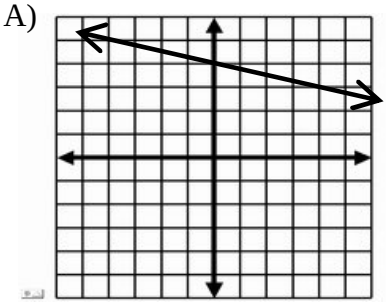


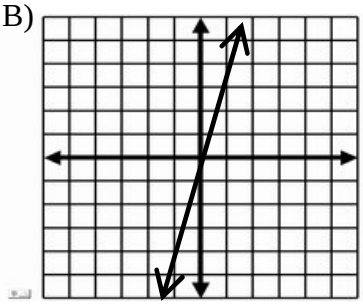
A) Its slope is 3/2 and goes through (-1, -1).
B) Its slope is 2/3 and goes through (1, 4).
C) Its slope is 3/2 and goes through (-3, -2).
D) Its slope is 2/3 and goes through (2,-4).

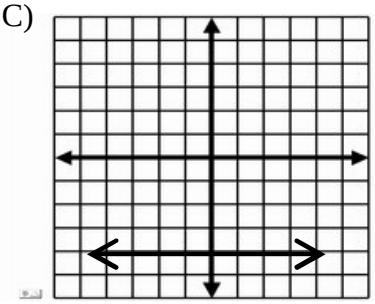
24. What is the slope and y-intercept of the given equation 3x ï 5y = -15?

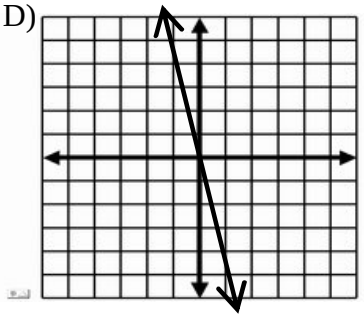
25. Determine the slope for (10, -2) and (1, 1).

26. Which graph matches the equation y = -4x?

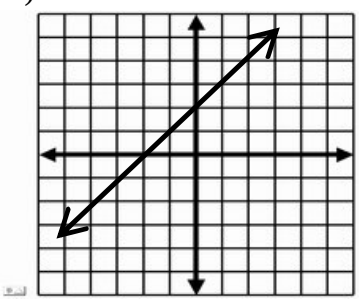
A) 

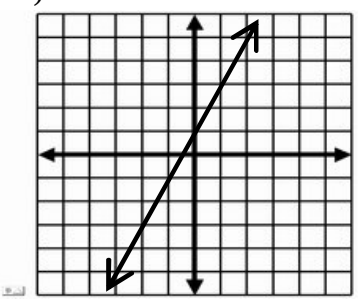
B) 

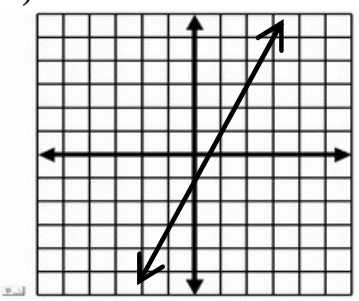
C) 

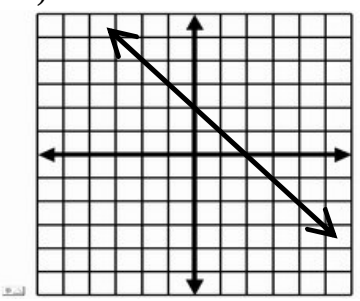
D) 

27. Which graph has the same slope and y-intercept as equation 2x = y ï 1.

A) 

B) 

C) 

D) 

Slope, Intercepts, and Graphing Equations Exam

...ections between ...

Name:_____ Coach Larry

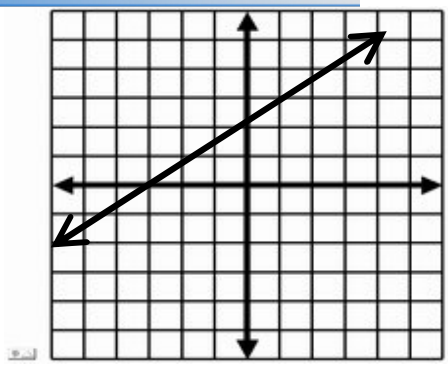
Pd:____ Date:_____

A) x-int (3, 0)
y-int (0, 2)

B) x-int (-3, 0)
y-int (0, 2)

C) x-int (2, 0)
y-int (0, 3)

D) x-int (2, 0)
y-int (0, -3)



2. Which is the following equation rewritten in slope-intercept form: -8x = 2 ï 2y

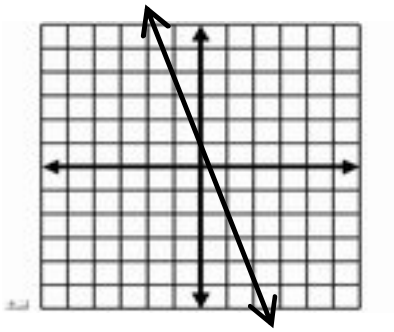
A) $y = \frac{1}{4}x + 1$

B) y = 4x + 1

C) y = -4x + 1

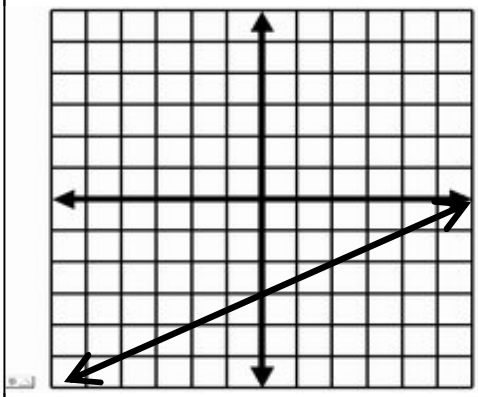
D) y = -4x ï 1

3. Which is **true** about the given line?



A) Its slope is -3 and goes through (2, 5).
B) Its slope is -1/3 and goes through (2, -5).
C) Its slope is -3 and goes through (2, -5).
D) Its slope is -1/3 and goes through (-5,2).

4. What is the equation of the given graph?



A) y = -2x ï 3

B) $y = ï \frac{1}{2}x + 3$

C) y = 2x ï 3

D) $y = \frac{1}{2}x - 3$

5. Which equation has a slope of $\frac{1}{4}$ and a y-intercept of 3?

A) $\frac{1}{4}x + 3y = 1$

B) $y = \frac{1}{4}x + 3$

C) $\frac{1}{4}x = y + 3$

D) $y = 3x + \frac{1}{4}$

6. Find the slope of the given points (3, 4) and (7, -4).

A) $ï \frac{1}{2}$

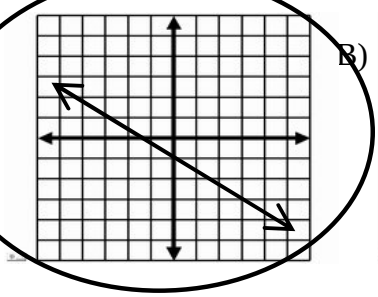
B) 2

C) -2

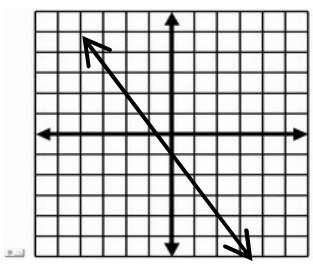
D) 0

7. Which of the following best presents the graph of a line with a slope of $ï \frac{2}{3}$ and a y-intercept of -1?

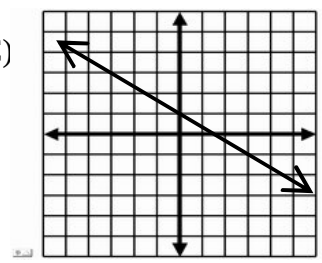
A)



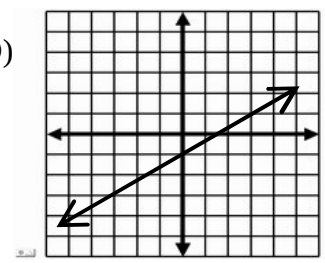
B)



C)



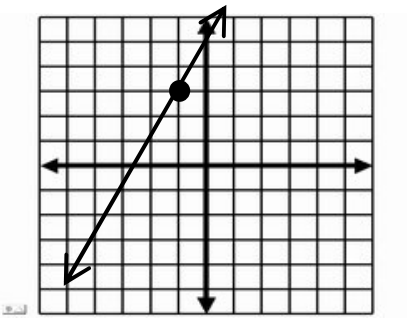
D)



5?

A) x-intercept (0, -3), y-intercept (5, 0)
B) x-intercept (-3, 0), y-intercept (0, 5)
C) x-intercept (0, 5), y-intercept (-3, 0)
D) x-intercept (5, 0), y-intercept (0, -3)

9. Graph a line with a slope of 2 and goes through the point (-1, 3).



10. Given 8x + 4y = 4, identify the slope and y-intercept.

A) Slope = -2 and y-int = 1

B) Slope = ï $\frac{1}{2}$ and y = 1

C) Slope = 1 and y-int = -2

D) Slope = 2 and y-int = 1

11. What is the slope of the given points (0, -1) and (-2, -4)?

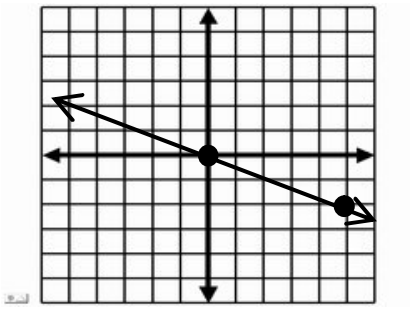
A) ï $\frac{3}{2}$

B) ï $\frac{2}{3}$

C) $\frac{2}{3}$

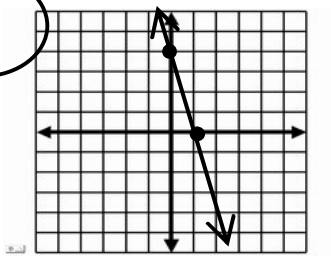
D) $\frac{3}{2}$

12. Graph the equation y = ï $\frac{2}{5}$ x.

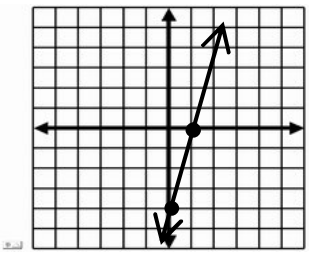


13. Which graph represents the x & y-intercepts for 2y = 8 ï 8x?

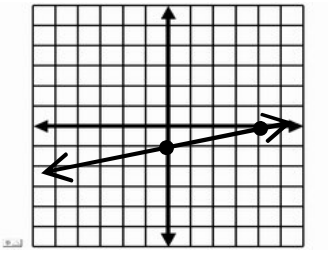
A)



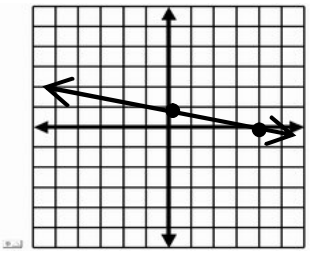
B)



C)

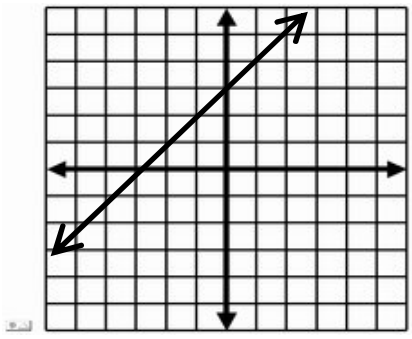


D)



14. What is the slope of the given graph?

A) ï 1
B) 1
C) 0
D) 3

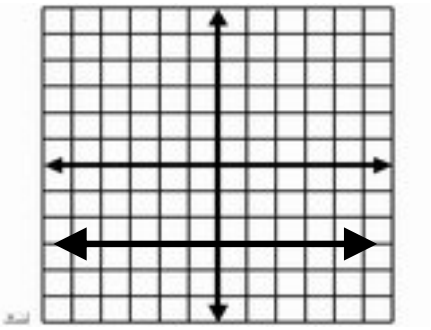


C) $\frac{14}{10}$

D) $\frac{10}{-4}$

16. What is the equation of the given graph?

A) x = -3
B) x = 3
C) y = -3
D) y = -3x
E) y = 3



17. Which are the x and y-intercepts for the given linear equation?

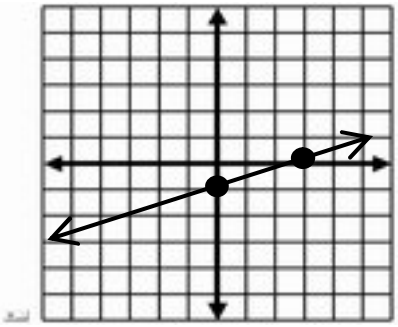
$$4x = y + 8$$

A) x-intercept (-2, 0), y-intercept (0, 8)
B) x-intercept (2, 0), y-intercept (0, -8)
C) x-intercept (-2, 0), y-intercept (0, -8)
D) x-intercept (2, 0), y-intercept (0, 8)

18. Graph the equation using its slope and y-intercept.

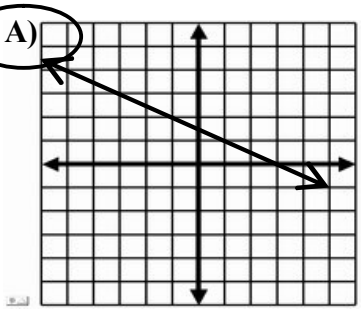
3y = -6 + x

y = 1/3x – 2

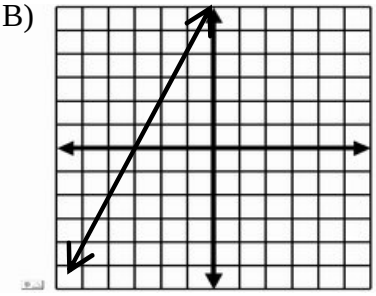


19. Which graph has the slope = ï $\frac{1}{2}$?

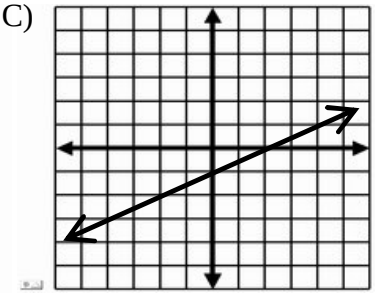
A)



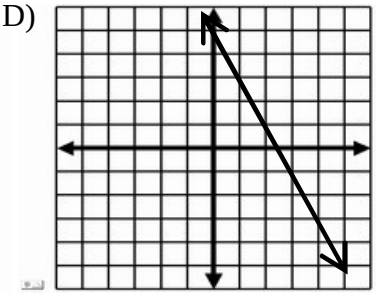
B)



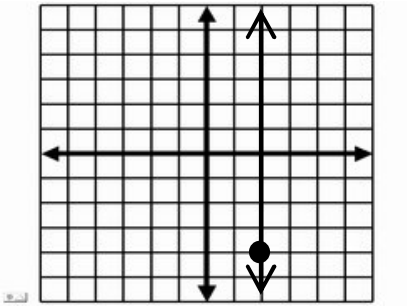
C)



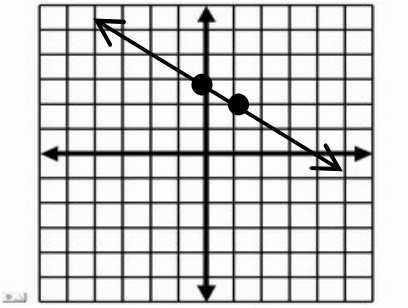
D)



20. Graph a line with an undefined slope and goes through the point (2, -4).

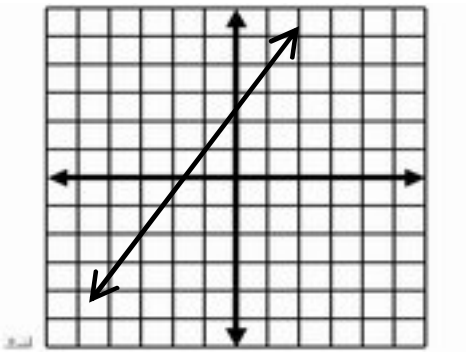


21. Graph the equation y = -x + 3.



A) ~~x-int (-9, 0) & y-int (0, 6)~~
B) x-int (9, 0) & y-int (0, 6)
C) x-int (-4, 0) & y-int (0, 6)
D) x-int (4, 0) & y-int (0, 6)

23. Which is **true** about the given line?



A) Its slope is 3/2 and goes through (-1, -1).
B) ~~Its slope is 2/3 and goes through (1, 4).~~
C) Its slope is 3/2 and goes through (-3, -2).
D) Its slope is 2/3 and goes through (2,-4).

24. What is the slope and y-intercept of the given equation 3x ï 5y = -15?

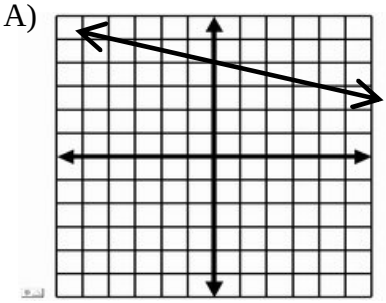
Slope = 3/5

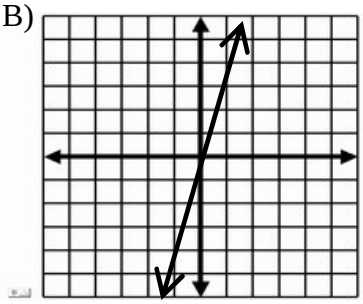
Y-int: 3

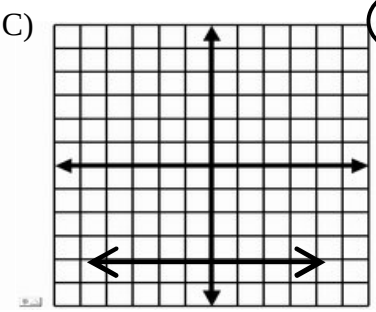
25. Determine the slope for (10, -2) and (1, 1).

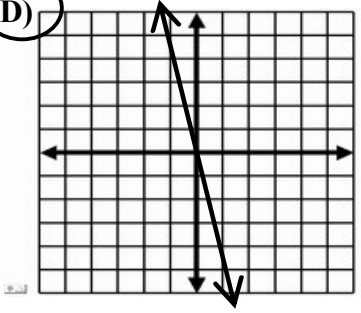
-1/3

26. Which graph matches the equation y = -4x?

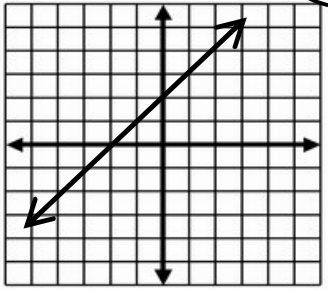
A) 

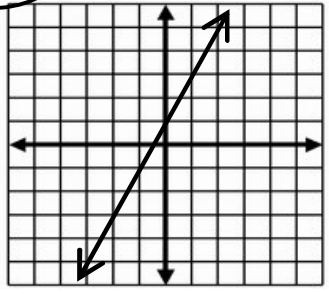
B) 

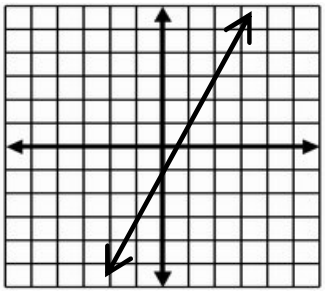
C) 

D) 

27. Which graph has the same slope and y-intercept as equation 2x = y ï 1.

A) 

B) 

C) 

D)