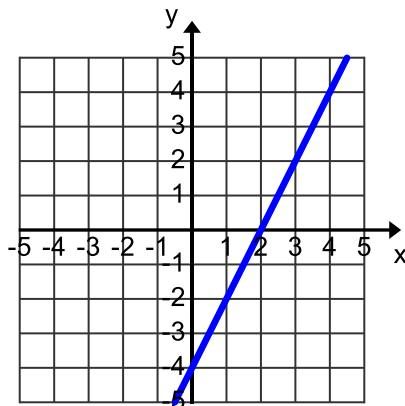


## Algebra Review of Concepts Chapters 4-6 QUIZ 24811

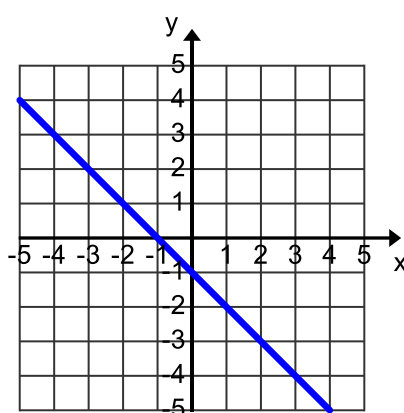
You may use your notes or my videos to help you on any question, but you cannot receive help from anyone.

1. What is the domain of  $\{(3,5), (4,5), (5,5)\}$ ?  
A.  $\{3, 4, 5\}$                       B.  $\{5\}$                               C.  $\{3, 5\}$   
D.  $\{5, 4, 5\}$                       E.  $\{4, 4, 5\}$                       F. None of the above
2. Which ordered pairs below are solutions to the equation  $2x + 4y = 8$ ?  
(Pick all that apply.)  
A.  $(0, 2)$                               B.  $(1, 1)$                               C.  $(-5, 3)$   
D.  $(6, -1)$                               E.  $(1, 2)$                               F.  $(-2, 2)$

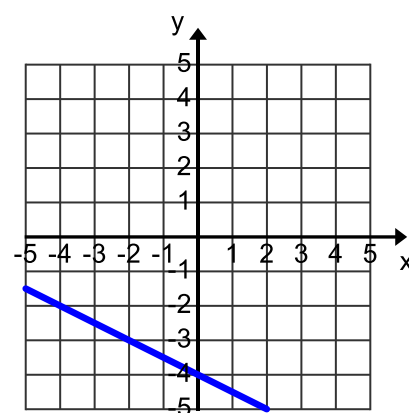
Graph 3



Graph 4

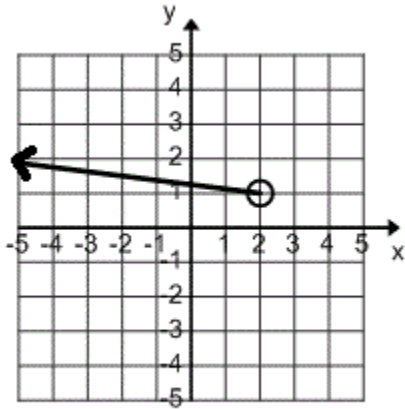


Graph 5



3. What is graphed in Graph 3?  
A.  $y = 2x - 4$                       B.  $y = 2x + 2$                       C.  $y = \frac{1}{2}x - 4$   
D.  $y = -\frac{1}{2}x - 4$                       E.  $y = \frac{1}{2}x + 4$                       F. None of the above
4. What is graphed in Graph 4?  
A.  $y = x - 1$                               B.  $y = -2x - 1$                       C.  $y = x + 1$   
D.  $y = -x - 1$                               E.  $y = 2x + 1$                               F. None of the above
5. What is graphed in Graph 5?  
A.  $y = 2x - 4$                               B.  $y = -2x - 4$                       C.  $y = \frac{1}{2}x - 4$   
D.  $y = -\frac{1}{2}x - 4$                       E.  $y = \frac{1}{2}x + 4$                       F. None of the above

6. What is the domain of the graph below?

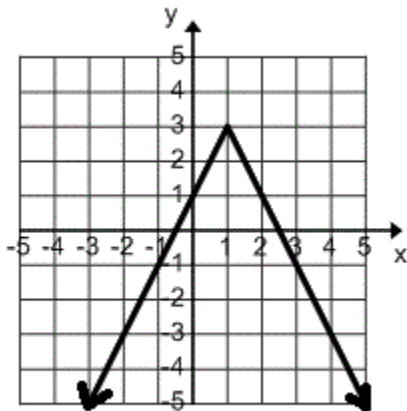


- A.  $x > 2$
- D.  $x \geq 1$

- B.  $x \geq 2$
- E.  $x < 2$

- C.  $x > 1$
- F. None of the above

7. What is the range of the graph below?

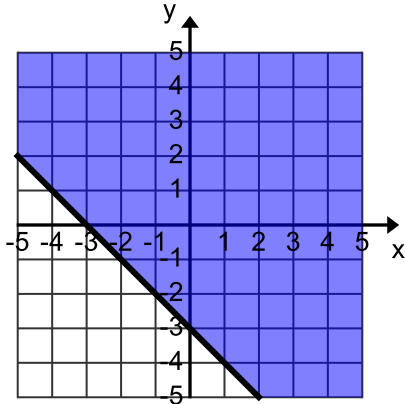


- A. All Real Numbers
- D.  $-3 < y < 3$

- B.  $y \geq 3$
- E.  $-3 \leq y \leq 3$

- C.  $y \leq 3$
- F. None of the above

8. What inequality is graphed below.  
The line is a DASHED line, but doesn't appear like it.



- A.  $y \geq -x + 3$   
 B.  $y > 3x - 1$   
 C.  $y < 3x + 1$   
 D.  $y \geq -x - 2$   
 E.  $y > -x - 3$   
 F. None of the above
9. What is the slope between the points (6, 22) and (4, 30)?  
 A. -3  
 B. -4  
 C. -5  
 D. 3  
 E. 4  
 F. None of the above
10. Rewrite the equation  $2x + \frac{1}{4}y = 4$  into slope intercept form.  
 A.  $y = -8x + 16$   
 B.  $y = -15x + 20$   
 C.  $y = -10x + 20$   
 D.  $y = 10x + 24$   
 E.  $y = -15x + 4$   
 F. None of the above
11. What is  $f(-3)$  for the function  $f(x) = \frac{4(x-2)}{2}$ ?  
 A. -27  
 B. -10  
 C. 3  
 D. -12  
 E. 12  
 F. None of the above
12. Which of these is the zero of the function  $f(x) = x^2 + 5x + 6$ ?  
 A. -1  
 B. -2  
 C. 4  
 D. 0  
 E. 3  
 F. None of the above
13. What is the x-intercept of  $f(x) = 2x - 4$ ?  
 A. (-4, 0)  
 B. (4, 0)  
 C. (0, -4)  
 D. (0, 2)  
 E. (2, 6)  
 F. None of the above

14. If the domain of  $f(x) = -5x + 3$  is  $\{-1, 0, 1\}$ , what is the range?
- A.  $\{8, 0, 2\}$                       B.  $\{-8, 3, 2\}$                       C.  $\{8, 3, -2\}$   
D.  $\{-8, 0, -2\}$                       E.  $\{8, 3, 2\}$                       F. None of the above
15. Give the equation of the line, in slope intercept form, that goes through the point  $(2, 6)$  and is parallel to the line  $y = 2x - 1$ .
- A.  $y = 2x + 2$                       B.  $y = -2x + 8$                       C.  $y = -\frac{1}{2}x + 8$   
D.  $y = -\frac{1}{2}x + 8$                       E.  $y = -\frac{1}{2}x + 2$                       F. None of the above