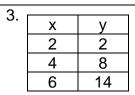
DIRECT VARIATION

Determine if the relationship is a direct variation. If so, write the equation.

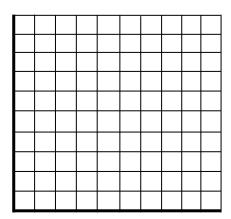
1				
١.	Х	10	5	2
	у	12	7	4

2				
۷.	Х	-6	3	12
	у	4	-2	-8



Х	у
2	0.8
5	2
20	8

5. While on his way to school, Norman saw that the cost of gasoline was \$3.00 per gallon. Write a direct variation equation to describe the cost *y* of *x* gallons of gas. Then graph.



6. The area a painter can paint varies directly with the amount of time he works. One morning, he painted 200 ft² between 8:00 a.m. and 1:00 p.m. Write a direct variation equation to describe the area y covered in x hours.

7.	The mass of a substance varies directly with the volume of the substance. Sixty liters of the
su	obstance has a mass of 80 kilograms. What is the volume in liters of 3.2 kilograms of the
su	ibstance?

8. If y varies directly as x, and y is 42 when x is 12, which of the following represents this situation?

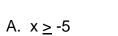
A.
$$y = 30x$$

B.
$$y = 54x$$

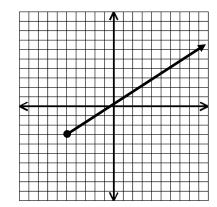
C.
$$y = \frac{7}{2}x$$

A.
$$y = 30x$$
 B. $y = 54x$ C. $y = \frac{7}{2}x$ D. $y = \frac{2}{7}x$

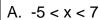
_9. What is the range of the graph shown?



D.
$$y \ge -3$$



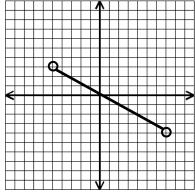
_10. What is the domain of the graph shown?



B.
$$-5 < x < 3$$

C.
$$-4 < x < 7$$

D.
$$-4 < x < 3$$



11. If (x, -3) is a solution to the equation 3x + 6y = 3, what is the value of x?