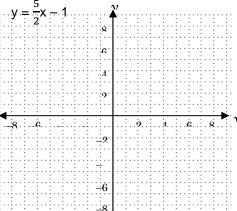
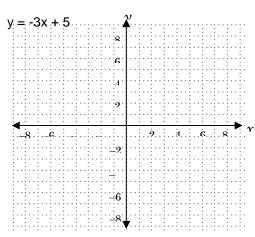
1. Draw the graphs of the following relations. Then draw the inverse y' of each.

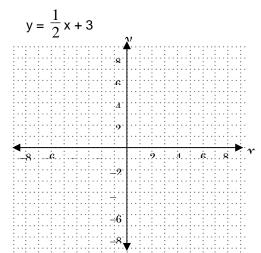
a) :



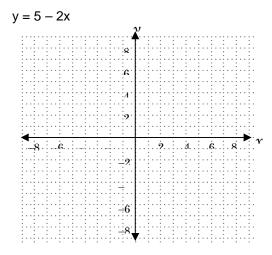
b



c)

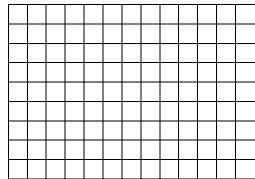


d)



- 2. Janice works at the Sky-dome and is paid \$10 for a game and 15¢ for every program that she sells.
 - a) Complete the table of values below and use this information to draw a graph to show how much Janice will be paid..

commod mm ac poman	
# Pgms	\$Pay
0	
10	
20	
30	



- b) Write an equation to model this situation.
- c) What is the slope of your equation? _____
- d) What is the y-intercept for this relation?
- 3. Calculate the Rate of change for the line segment joining each of the following pairs of points.
 - a) A(1,4) and B(3,10)
- b) E (2,3) and F(-1,5)
- c) G(0,3) and H(5,3)

- 4. Find the equations for the following linear relations. Show all of your work for full marks.
 - slope of 3 and a y-intercept of 7 a)
 - b) through the points (2,-1) and (0,2)
- 5. Corey rents a car for the day. The rental company charges the basic price of \$37.50 a day plus \$0.08 per kilometer driven. The total rental cost is represented by y ,and the number of kilometers by x. Which equation expresses this situation?

A)
$$y = 37.50x + 0.08$$

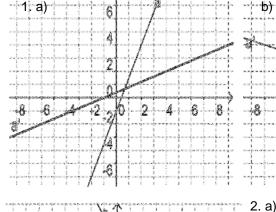
C)
$$x = 37.50y + 0.08$$

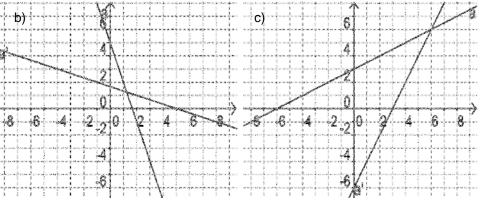
B)
$$y = 0.08x + 37.50$$

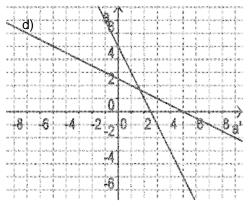
D)
$$x = 0.08y + 37.50$$

- 6. The rule for a relation is C = 0.12x + 20 where C represents the total cost in dollars and x represents the number of items sold. Which one of the following statements is TRUE?
 - The total cost varies directly as the number of items purchased. A)
 - B) The cost of each item purchased is \$12.
 - C) The graph representing this situation is a line passing through the point (20, 0).
 - D) The graph representing this situation is a line that does not pass through the origin.

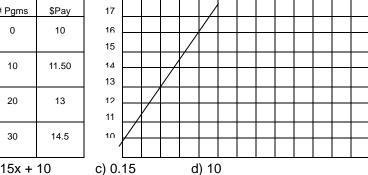
Solutions







# Pgms	\$Pay
0	10
10	11.50
20	13
30	14.5



- b) y = 0.15x + 10
- 3. a)3 c)0 5. B 6. D
- 4. a) y = 3x + 7
- b) $y = -\frac{32}{}x + 2$