

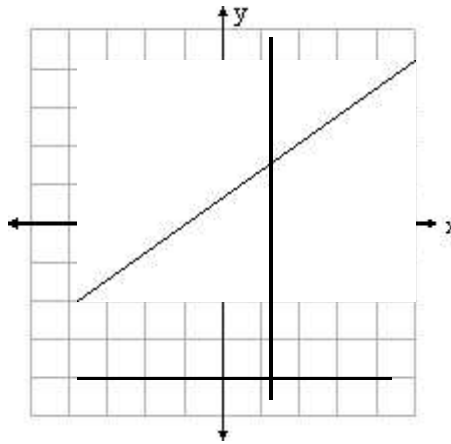
Algebra Chapter 7 Test

Year	1940	1950	1960	1970	1980	1990	2000
Cost for a Coke	\$.05	\$.05	\$.10	\$.25	\$.35	\$.45	\$.70

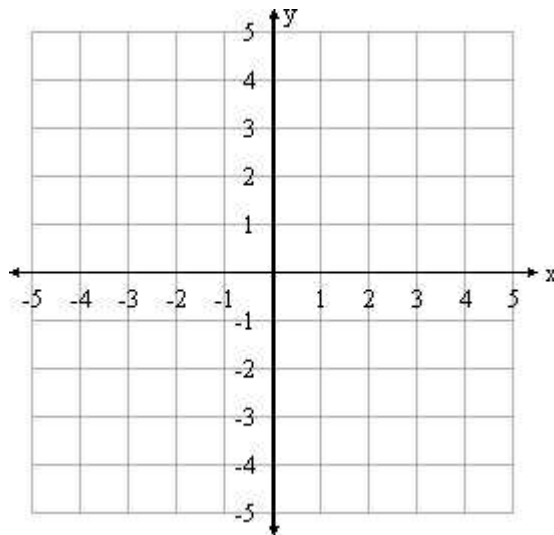
1. According to the chart above, what was the rate of change of the price of a coke from
 - a.) 1940 to 1950 _____
 - b.) 1940 to 2000 _____
 - c.) 1960 to 1980 _____
 - d.) 1990 to 2000 _____

2. Consider the graph to the right.
Which line has a

- a.) positive slope _____
- b.) negative slope _____
- c.) no slope _____
- d.) slope of 0 _____



3. Consider the line $3x + 2y = 12$
 - a.) What is the slope of this line? _____
 - b.) What is the y-intercept of this line? _____



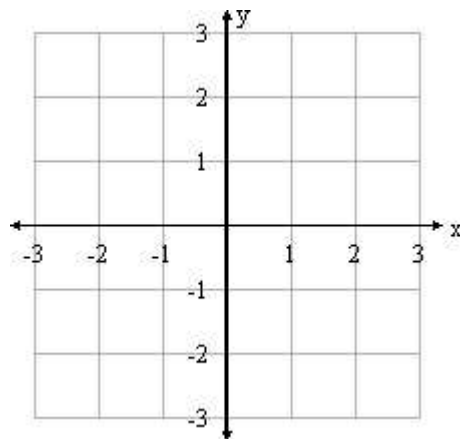
4. On the graph to the right,
graph the line
 $y = -\frac{1}{2}x + 2$

5. Give the equation of the line that goes through the point $(8, 0)$ has a slope of -2 .

6. Give the equation of the line that goes through the points $(2, 5)$ and $(8, 8)$.

7. Put the equation $y = \frac{2}{3}x + 5$ into standard form.

8. Graph the line that has a slope of 0 and goes through the point $(2, 1)$.



9. The 7 foot laser man has a beam on top of his head that shoots out blue slim. If the blue slim shoots in a straight line and it hits me on the bottom of my feet when I am 35 feet away, what is the

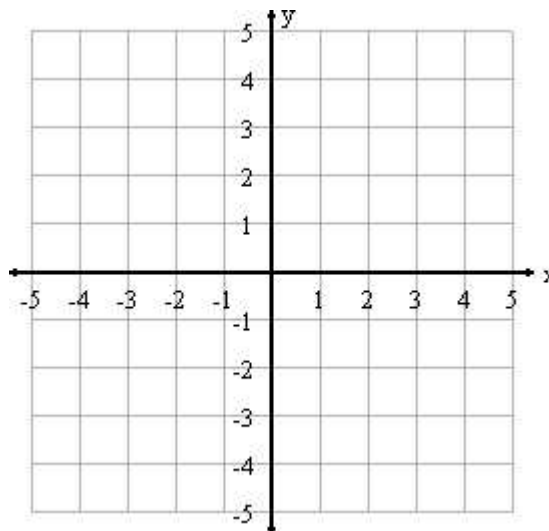
slope of the line of the blue slim? Ignore positive and negative slope.

10. Give the equation that passes through (9, 4) and has a slope of -2.

11. When I called 1-900-ASK-MATH, I talked for 3 minutes and was billed \$2.32. I called back later that week and talked for 5 minutes and was billed \$3.04. Give the equation that describes how much it costs, T , to talk m minutes with the people at 1-900-ASK-MATH.

12. Rewrite $y = \frac{3}{5}x + \frac{2}{3}$ in standard form. _____

13. At the store, Tim bought some cans of Cherry Coke and some cans of Vanilla Coke. If Cherry Coke cost 25 cents a can and Vanilla Coke cost 30 cents a can, give the equation that describes all possible combinations he could have bought of these two drinks if he had \$8 to spend.



14. On the graph to the right, graph $y < x + 1$.

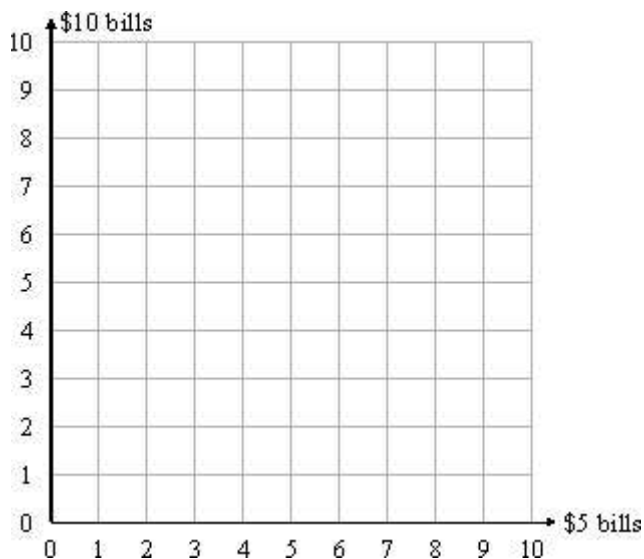
15. At what point would the lines $y = -4$ and $x = -3$ cross? _____

16. What is the equation of the line in slope intercept form that has a x -intercept of 4 and y -intercept of 2?

17. Abby has \$40 in \$5 bills and \$10 bills.

a.) Give an equation to describe the situation.

b.) Graph the possible solutions to the right.



18. Tom rents videos at Movies R' Us. He must pay a one time membership fee of \$25 and then \$3 for each video he rents. If you were to graph this situation,

a.) What would be the y -intercept? _____

b.) What would be the slope? _____

19. Let A be the line that goes through the points (2, 4) and (5, 13).

Let B be the line that goes through the points $(-3, 5)$ and $(-1, 7)$.
After coming up with the equations of lines A and B, determine
where the two lines intersect without using your graphing calculator.

Point of intersection of line A and line B = _____

20. If you were to graph $x > 0$ and then graph $y < 0$,
which quadrant would be in both of the graphs? _____