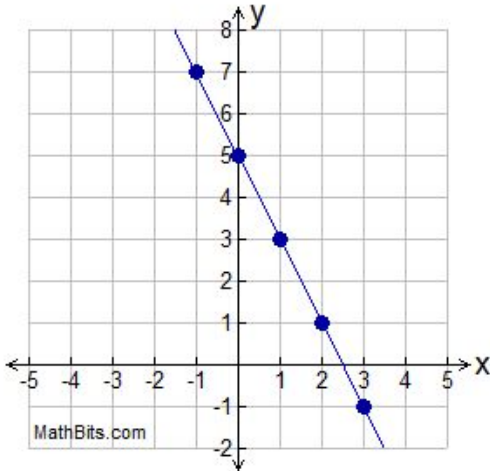


Required Skills:

- 1) Create a linear equations from a set of values (a graph, a table, or information given)
- 2) Graph a linear relation and be able to use it to extrapolate data
- 3) Solve linear equations
- 4) Solve single variable inequalities

Review Questions:

1. Given the following graph, what linear equation is represented?

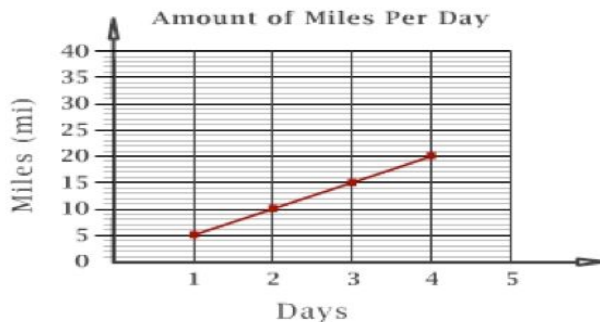


2. Many counties in Florida missed many school days in the fall of 2004 due to hurricanes that year. A solution for how to make up those days was to add time to each school day for a portion of the year. It was decided that in order to make up a 6 hour school day, 10 minutes would be added to each day. How many extended days would be needed to make up 3 school days?

3. Write an equation to represent the following set of values:

x	y
89	-11
107	11
116	22

4. Using the graph below, determine how many miles will be run on day 5.



5. The questions below test your solving equation skills

1) $6 = \frac{a}{4} + 2$

2) $-6 + \frac{x}{4} = -5$

3) $9x - 7 = -7$

4) $0 = 4 + \frac{n}{5}$

5) $-4 = \frac{r}{20} - 5$

6) $-1 = \frac{5+x}{6}$

7) $5p - 14 = 8p + 4$

8) $p - 4 = -9 + p$

9) $-8 = -(x + 4)$

10) $12 = -4(-6x - 3)$

11) $14 = -(p - 8)$

12) $-(7 - 4x) = 9$

13) $-18 - 6k = 6(1 + 3k)$

14) $5n + 34 = -2(1 - 7n)$

15) $2(4x - 3) - 8 = 4 + 2x$

16) $3n - 5 = -8(6 + 5n)$

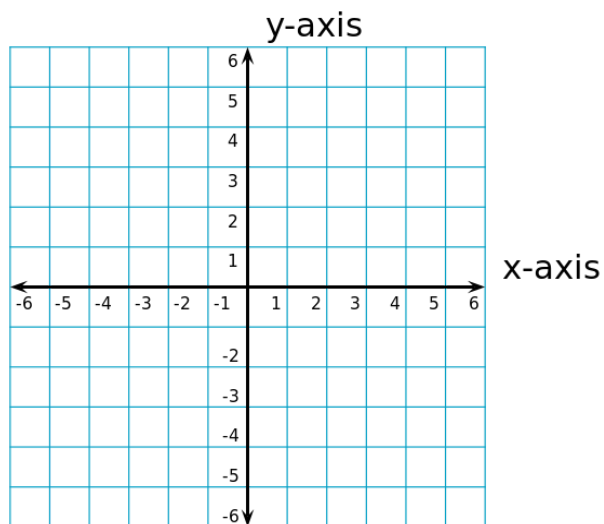
17) $-(1 + 7x) - 6(-7 - x) = 36$

18) $-3(4x + 3) + 4(6x + 1) = 43$

6. Write an inequality representing that you need to receive over 50% to Science 10.

7. Is 4 a possible solution to the inequality: $7 + n > 3$

8. What does the graph look like when y is equal to a rational number? What does the graph look like when x is equal to a rational number?



9. Using a number line represent that x is less than or equal to 3? Use a number line to represent that y is more than 4