Review Test 1 Q2 Honors

1) Write the equation in slope-intercept form.
$2x - 4y = 12$

2) Write the equation in standard form. $y = -\frac{2}{3}x + 6$

3) Given the point $(6,\ 9)$ and the slope $\frac{2}{3}$, write an equation in slope-intercept form.

4) Graph the equation. $y = -\frac{1}{3}x + 7$

5) Graph the equation $y = \frac{2}{3}x - 8$

6) Given the points $(-4, -2)$ and $(-4, 7)$, find the slope.

7) Given the function $f(x) = 4x + 7$, $g(x) = -2x + 1$. Write a new function $d(x) = f(x) - g(x)$.

8) Given the function $f(x) = 4x + 7$, $g(x) = -2x + 1$. Write a new function $d(x) = f(x) \times g(x)$.

9) Given the equation $-4x + 6y = 24$. Find the x and y intercepts. State answer as order pairs.

10) Given the equation $-3x - 4y = -12$, Find the x and y intercepts and **graph**.

11) Write the inverse of the equation $y = \frac{3}{4}x - 6$

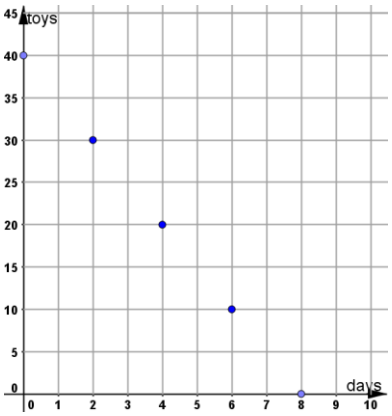
12) Mr. Sica's Car initial value was $18,500. At the end of the first year the value depreciated to $17,000, then the next year $15,500, etc. Write BOTH explicit rules for the arithmetic sequence.

13) The table below represents jimmy's weight each month. Find the average rate of change from month 4 to month 10.

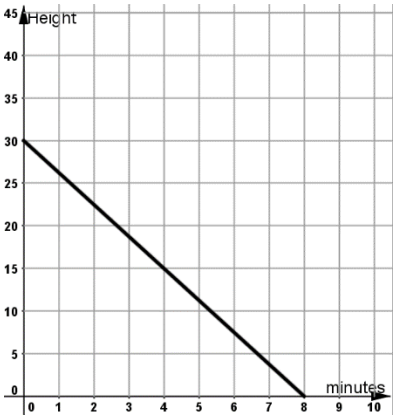
Month	2	4	6	8	10
Weight	145	163	157	167	155

14) Given the graphs below, state the domain.

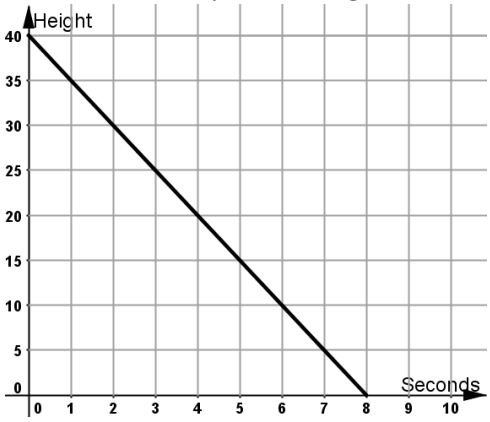
a)



b)



15)This is a model of a squirrel falling out a of 40 foot tree.



What does the x-intercept mean?

What does the y-intercept mean?