Name:_____ Period: _____

**HW #15**

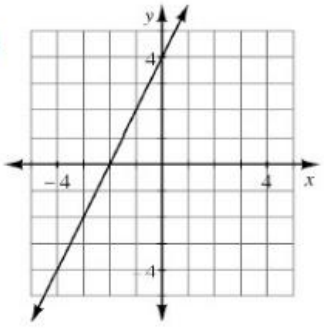
1) Write the equation of the line that passes through the points (1, 2) and (4, -1).

2) Write the equation of the line that passes through the points (-6, 8) and (-8, 5).

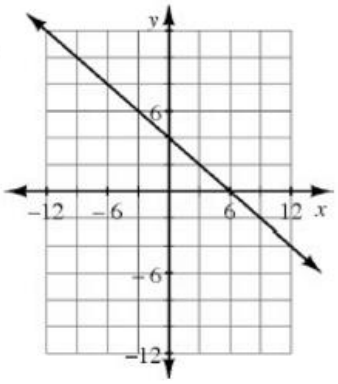
3) Match the following graphs with their equations. Pay special attention to the scaling of each set of axes. EXPLAIN how you found each match.

a. $y = \frac{1}{4}x + 4$ b. $y = \frac{1}{2}x + 4$ c. $y = 2x + 4$ d. $y = -\frac{2}{3}x + 4$

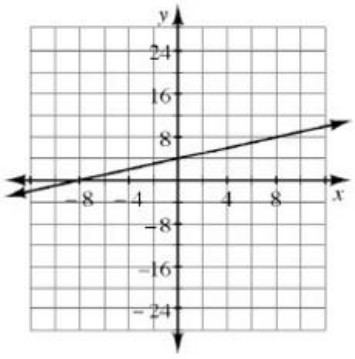
1.




2.




3.

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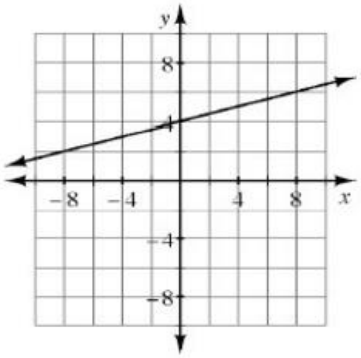
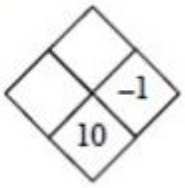
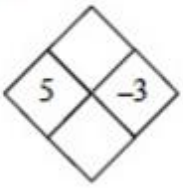


4) Complete the diamond problems.

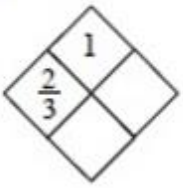
a.



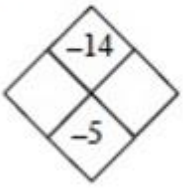

b.




c.



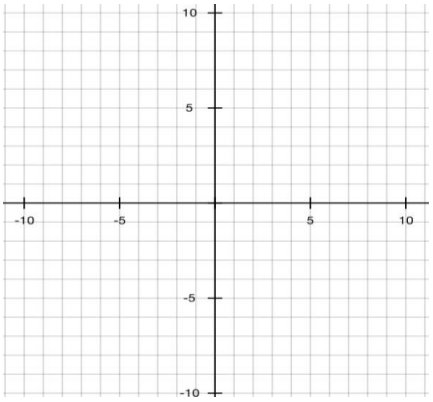

d.

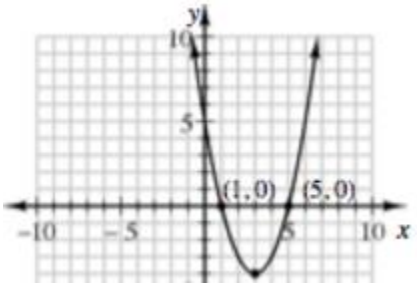
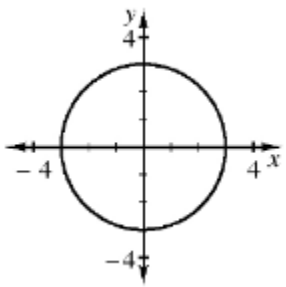



5) Evaluate each expression if $x = -2$, $y = -3$, and $z = 5$.

a. $2x + 3y + z$ b. $x - y$ c. $2\left(\frac{x+y}{z}\right)$

6) Graph $y = -\frac{2}{3}x + 3$. Explain your process to graph this line.




7) Determine if the graphs are functions. List the Domain and Range.