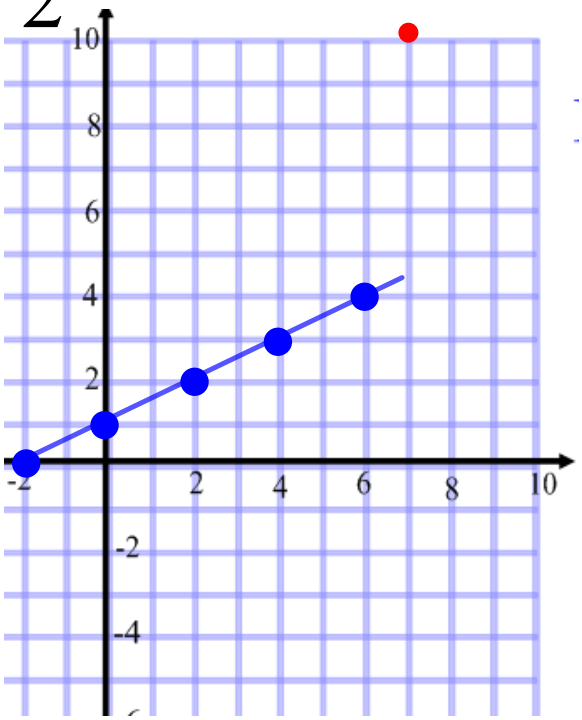
QUIZ DAY

Which equation represents the graph?

2



Pick the correct equation

a) $y = \frac{3}{2}x + 1$

$x = 0$
$y = 1$
$(0, 1)$

$\frac{\Delta y}{\Delta x} = \frac{3}{2}$ ↑ →

b) $y = 2x + 1$

$x = 0$
$y = 1$
$(0, 1)$

$\frac{\Delta y}{\Delta x} = \frac{2}{1}$ ↑ →

c) $y = \frac{1}{2}x + 1$

$x = 0$
$y = 1$
$(0, 1)$

$\frac{\Delta y}{\Delta x} = \frac{1}{2}$ ↑ →

Homework Questions??

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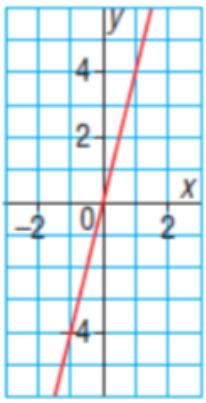
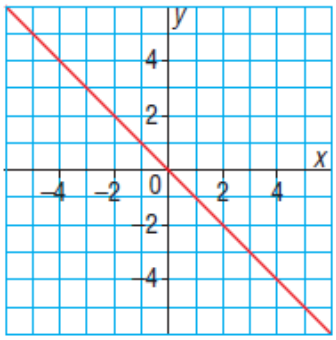
3. Match each equation with a graph below.

a) $y = 2x$ | **b)** $y = 4x$ | **c)** $y = -x$

i)



ii)



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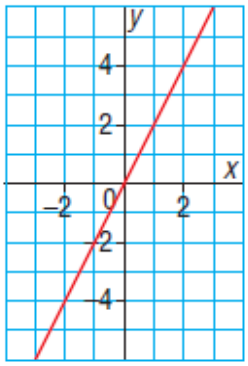
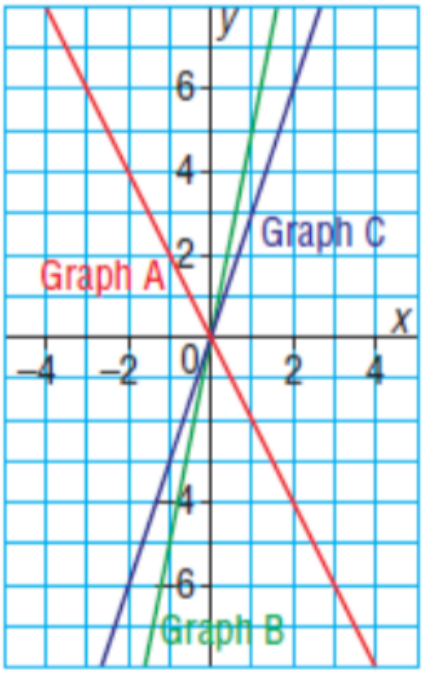


4. Match each equation with a graph on the grid below.

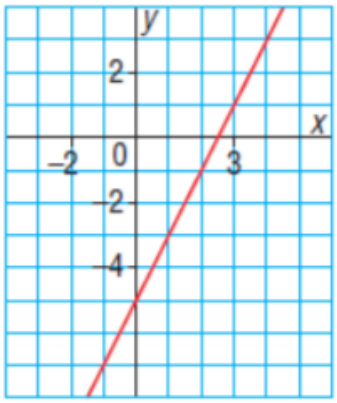
a) $y = 3x$ | **b)** $y = 5x$ | **c)** $y = -2x$



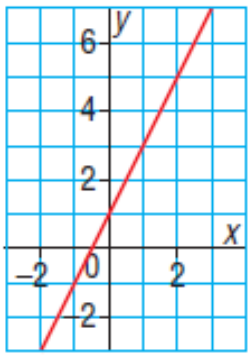
5. Match each equation with a graph below. Which strategy did you use?

a) $y = 2x + 1$ **b)** $y = 2x + 3$ **c)** $y = 2x - 5$

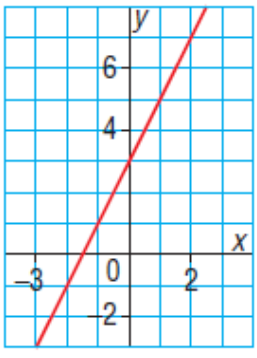
i)



ii)



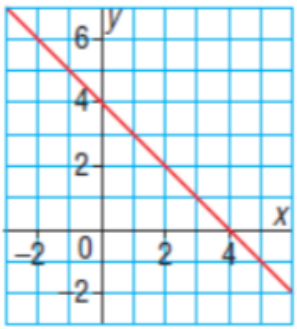
iii)



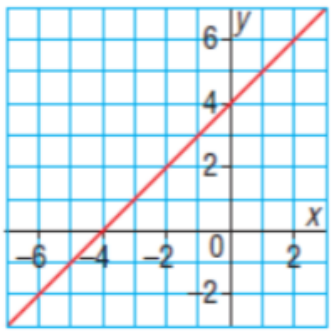
6. Match each equation with a graph below. Justify your answers.

a) $x + y = 4$ **b)** $x - y = 4$ **c)** $x - y = -4$

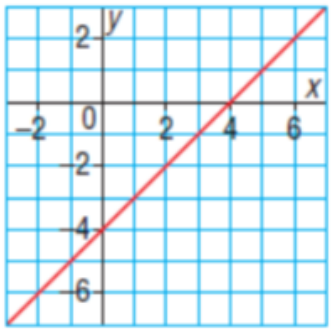
i)



ii)

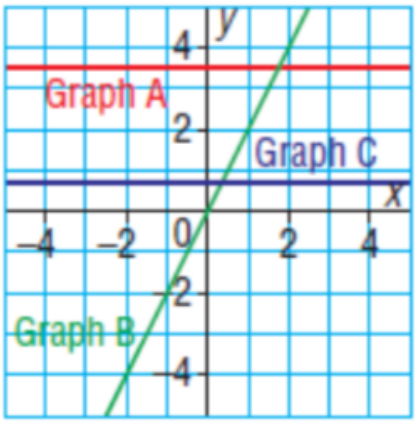


iii)

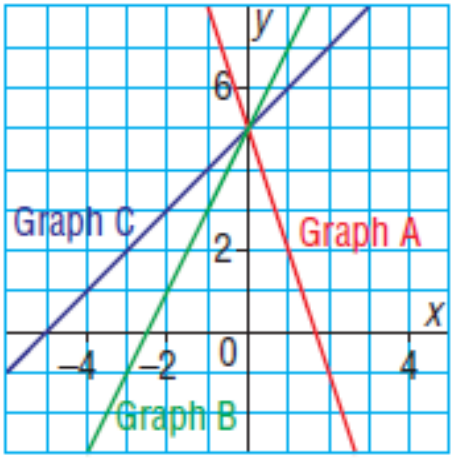


7. Match each equation with its graph below. Explain your strategy.

a) $y = 2x$ | **b)** $2y = 7$ | **c)** $3y = 2$

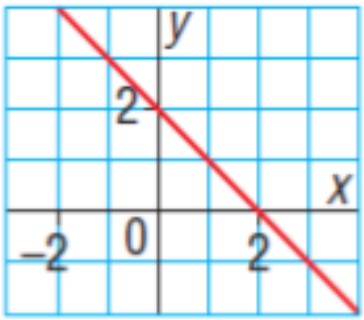


8. Which graph on this grid has equation $y = 2x + 5$? Justify your answer.



9. Which equation describes each
Justify your answers.

a) i) $y = 2x + 1$ ii) $y = 2$ iii) $y = x - 2$ iv) $y = -x + 2$

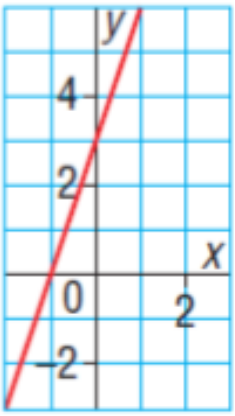


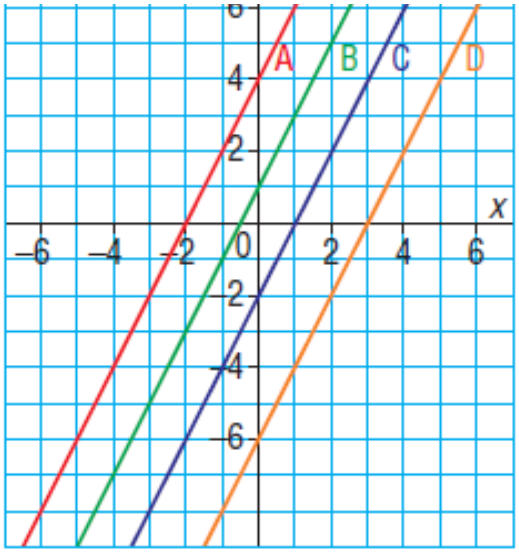
b) i) $x + 3y = 1$

ii) $3x - y = -3$

iii) $3x + y = 1$

iv) $3x - y = 3$





b) How are the graphs different?

c) Match each graph to its equation.

i) $y = 2x - 2$

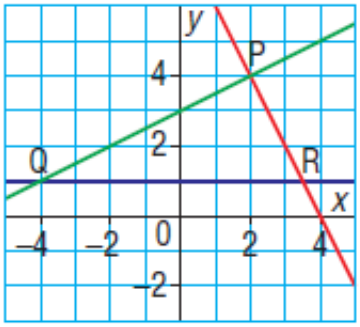
ii) $y = 2x + 4$

iii) $2x - y = 6$

iv) $2x - y = -1$

d) Did you use the same strategy each time?
If your answer is yes, what strategy did you use and why?
If your answer is no, explain why you used different strategies.
Show your work.

12. The lines on the grid below intersect to form ΔPQR. The equations of the lines are: $y = 1$, $2x + y = 8$, and $2y - x = 6$



What is the equation of the line on which each side of the triangle lies?

a) PQ b) QR c) RP