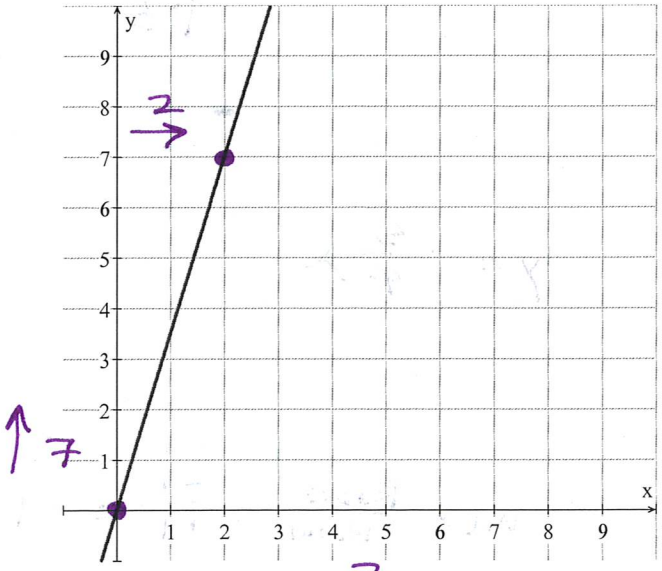
Writing Proportional Equations From Graphs Notes

Recall: $y = mx$

The slope

Write the equation for each graph.

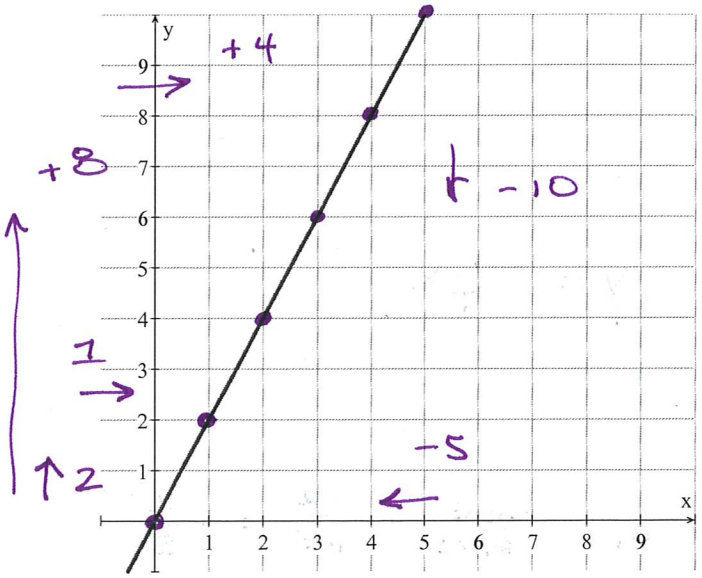
Ex:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+7}{+2} = \frac{7}{2}$



$y = \frac{7}{2}x$

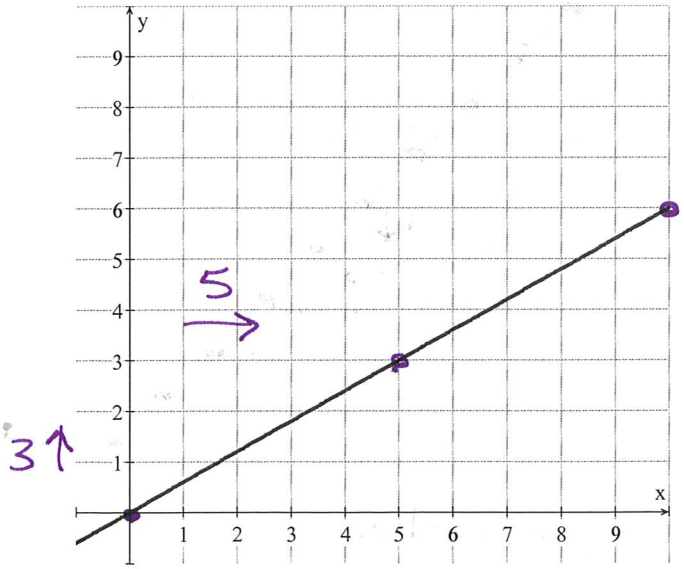
Ex:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+2}{+1} = 2$

$\frac{+8}{+4}$ $\frac{-10}{-5}$



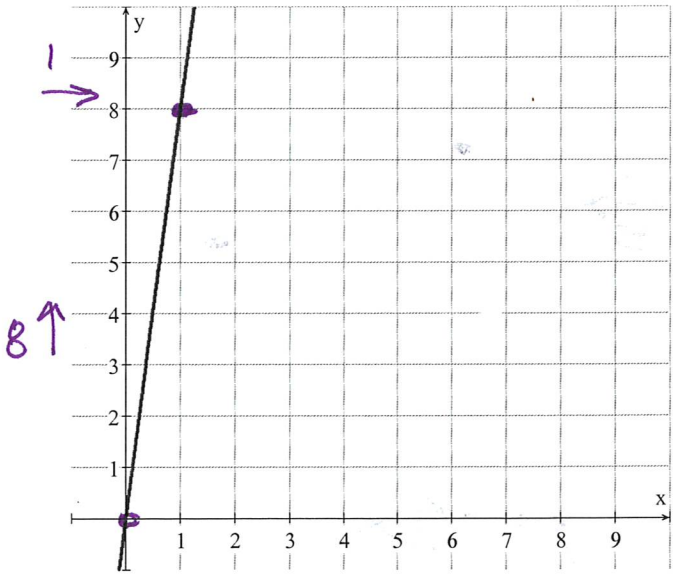
$y = 2x$

OYO:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+3}{+5} = \frac{3}{5}$



$y = \frac{3}{5}x$

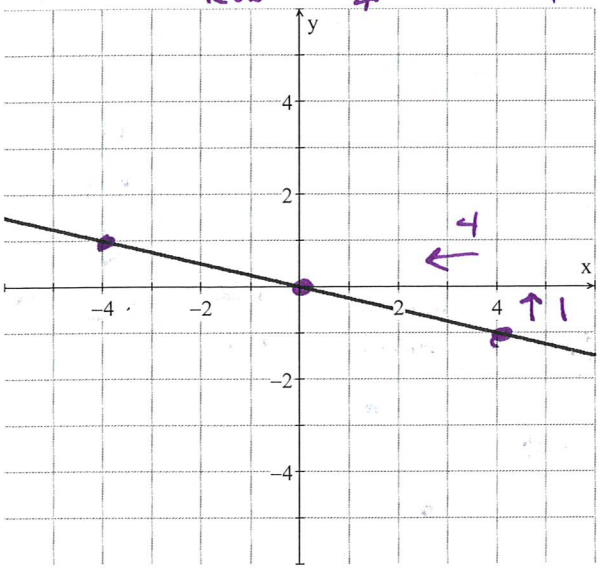
OYO:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+8}{+1} = 8$



$y = 8x$

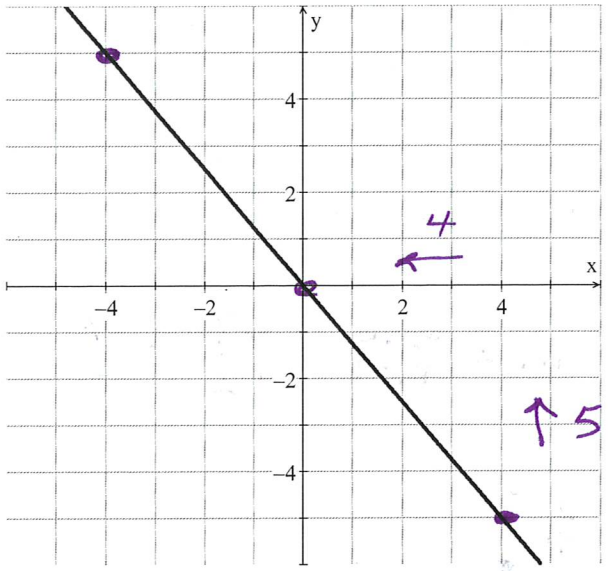
Write the equation for each graph.

Ex:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+1}{-4} = -\frac{1}{4}$



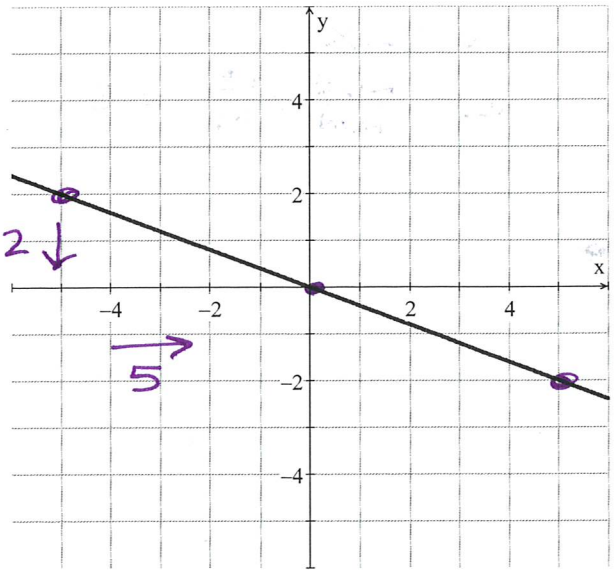
$y = -\frac{1}{4}x$

Ex:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{+5}{-4} = -\frac{5}{4}$



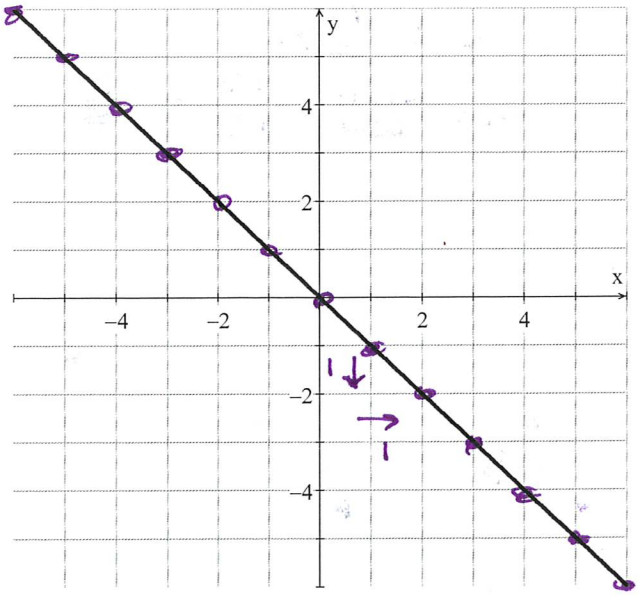
$y = -\frac{5}{4}x$

OYO:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{-2}{+5} = -\frac{2}{5}$



$y = -\frac{2}{5}x$

OYO:) $m = \frac{\text{RISE}}{\text{RUN}} = \frac{-1}{+1} = -1$



$y = -1x$