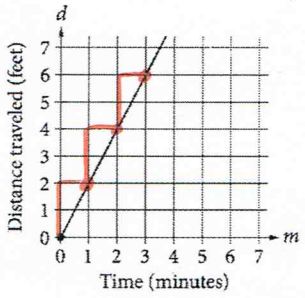
NO Calculator
XY PLANES

2 SIMPLE SLOPE ID 8

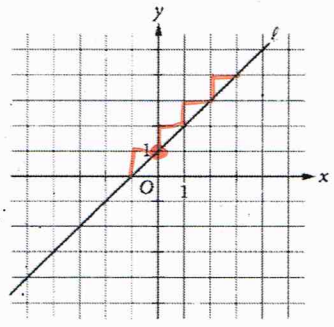


A. LABEL
$y = 2x$
$d = 2m$

The graph above shows the distance traveled d, in feet, by a product on a conveyor belt m minutes after the product is placed on the belt. Which of the following equations correctly relates d and m?

A) $d = 2m$
B) $d = \frac{1}{2}m$
C) $d = m + 2$
D) $d = 2m + 2$

1 SIMPLE SLOPE ID 5

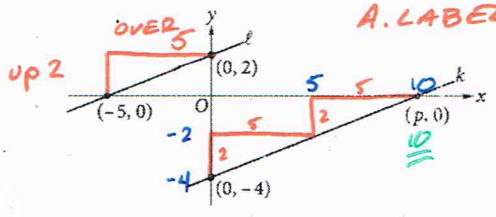


A. LABEL
$y = x + 1$

Which of the following is an equation of line ℓ in the xy-plane above?

A) $x = 1$
B) $y = 1$
C) $y = x$
D) $y = x + 1$

6 SLOPE ID 2



A. LABEL

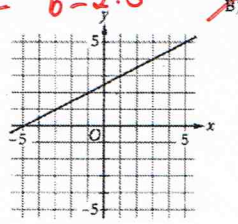
In the xy-plane above, line ℓ is parallel to line k. What is the value of p?

A) 4
B) 5
C) 8
D) 10

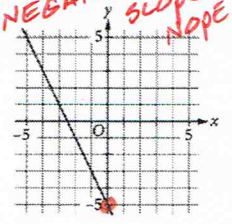
5 SLOPE BASICS ID 6

Which of the following is the graph of the equation $y = 2x - 5$ in the xy-plane?

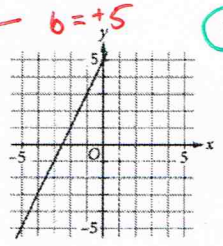
A) $b = 2.5$



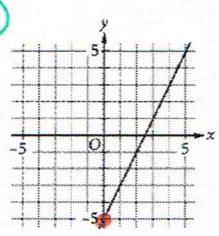
B) NEGATIVE SLOPE NOPE



C) $b = +5$



D)



A. LABEL
$y = mx + b$
$y = 2x - 5$

P.O.E. based ON $b = -5$

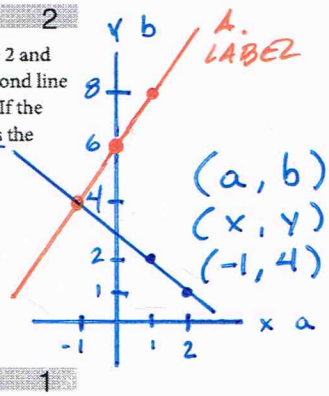
P.O.E. based ON POSITIVE SLOPE

9 DRAW & SOLVE 2

The graph of a line in the xy-plane has slope 2 and contains the point $(1, 8)$. The graph of a second line passes through the points $(1, 2)$ and $(2, 1)$. If the two lines intersect at the point (a, b), what is the value of $a + b$?

A) 4
B) 3
C) −1
D) −4

$a + b = -1 + 4 = 3$



A. LABEL
(a, b)
(x, y)
(-1, 4)

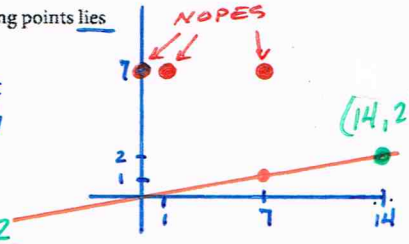
12 DRAW & SOLVE 1

A line in the xy-plane passes through the origin and has a slope of $\frac{1}{7}$. Which of the following points lies on the line?

A) (0, 7)
B) (1, 7)
C) (7, 7)
D) (14, 2)

SLOPE = $\frac{\text{RISE}}{\text{RUN}} = \frac{y}{x}$

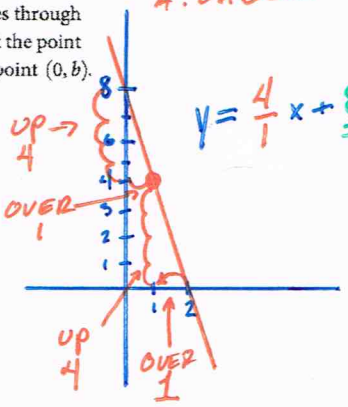
$\frac{y}{x} = \frac{1}{7} = \frac{2}{14}$



A. LABEL

19 DRAW & SOLVE 7

The graph of a line in the xy-plane passes through the point $(1, 4)$ and crosses the x-axis at the point $(2, 0)$. The line crosses the y-axis at the point $(0, b)$. What is the value of b?



A. LABEL
$y = \frac{4}{1}x + 8$