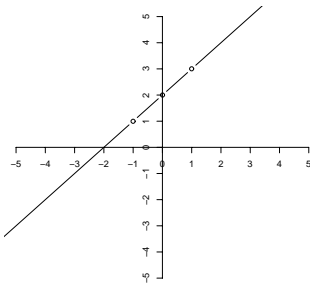


## Solutions to Warmup 3

- 640
- 642.5
- 643
- 0.00146
- 54500
- 49
- $2ab - 3bc$
- 16
- $\frac{1}{16}$
- 2

11. Graph the function  $2y + 3 = x + y + 5$   
 $y + 3 = x + 5$   $y = x + 5 - 3$   
 $y = x + 2$



12. Match these equations with their graphs:

The first graph:  $y = x + 2$

The second graph:  $y = 2 - x$

Solve the following equations:

- 13.

$$3(a - 2) = 15$$

$$3a - 6 = 15$$

$$3a = 21$$

$$a = 7$$

- 14.

$$|7 - 3| = |4| = 4$$

15.

$$\begin{aligned} |8x - 4| &= 12 \\ 8x - 4 &= 12 \text{ or } 8x - 4 = -12 \\ 8x &= 16 \text{ or } 8x = -8 \\ x &= 2 \text{ or } x = -1 \end{aligned}$$

Find the equation of the line through (3,0) and (6,3)

16. slope = 1:

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{\text{"rise"}}{\text{"run"}} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 0}{6 - 3} = \frac{3}{3} = 1$$

$$x_1 = 3, y_1 = 0$$

$$y = mx + b$$

$$0 = 3 + b$$

$$b = -3$$

$$y = x - 3$$

Check your answer using the other point (6,3):

$$x_2 = 6, y_2 = 3$$

$3 = 6 - 3$ ? Yes! Our equation is correct.