

To find the slope, solve for  $y$ :  $8y = 16 - 6x$ , so  $y = 2 - \frac{6}{8}x$  or  $y = -\frac{3}{4}x + 2$

The slope is  $-\frac{3}{4}$ . The slope of a parallel line is  $-\frac{3}{4}$ . A parallel line has the form  $y = -\frac{3}{4}x + b$ . To find  $b$ , substitute  $(12, -9)$  for  $x$  and  $y$ :

$$-9 = -\frac{3}{4}(12) + b, \text{ or } -9 = -9 + b, \text{ so } 0 = b$$

This gives you the equation of the line:  $y = -\frac{3}{4}x$