

$$y - y_1 = m(x - x_1)$$

$$y - 1 = -\frac{1}{7}\left(x - \frac{7}{2}\right)$$

$$y - 1 = -\frac{1}{7}x + \frac{1}{2}$$

$$y - 1 + 1 = -\frac{1}{7}x + \frac{1}{2} + 1$$

$$y = -\frac{1}{7}x + \frac{1}{2} + \frac{2}{2}$$

$$y = -\frac{1}{7}x + \frac{3}{2}$$