

Substitute the slope (m) into $y = mx + b$: $y = \frac{2}{3}x + b$

Substitute the coordinates of the point $(-6, 1)$ for x and y : $1 = \frac{2}{3}(-6) + b$

Solve for b : $1 = -4 + b$, so $5 = b$

Rewrite $y = mx + b$ with $m = \frac{2}{3}$ and $b = 5$: $y = \frac{2}{3}x + 5$