How would you write the equation of the line that passes through the given points in Standard Form? $(4, 1)$ & $(-6, -24)$

Standard Form: Ax + By = C
where A, B, and C are integers.

start with Slope-Intercept Form:

$$y = \frac{5}{2}x - 9$$ move the x-term to the left side of the equation

$-\frac{5}{2}x \qquad -\frac{5}{2}x$

$2\left(-\frac{5}{2}x + y = -9\right)$ eliminate the denominator 2 by multiplying both sides of the equation by 2.

-5x + 2y = -18