### 6.3 Key Concepts 4 Points on Lines Worked Example

Example: Determine whether the point $(2,-1)$ is on the line $y=3 x-5$.

Solution: Substitute $x=2$ into the equation.

$$
\begin{aligned}
y & =3(2)-5 \\
& =6-5 \\
& =1
\end{aligned}
$$

Since this does not match the given value for $y$, the point is not on the line.

## Practice:

1. Determine whether the point $(3,-2)$ is on the line $y=2 x-8$.
2. Determine whether the point $(5,-1)$ is on the line $y=\frac{3}{5} x-2$.

Answers: 1. Yes. 2. No.

