### 7.4 Key Concepts 1 x-I ntercept of a Line Worked Example

Example: Find the $x$-intercept of the line described by the equation $4 x-5 y=20$.
Solution: To find the x -intercept, set $\mathrm{y}=0$. Then, solve the equation for x .

$$
\begin{aligned}
4 x-5(0) & =20 \\
4 x & =20 \\
x & =\frac{20}{4} \\
& =5
\end{aligned}
$$

The $x$-intercept is 5 .

## Practice:

1. Find the $x$-intercept of the line described by the equation $5 x+2 y=-10$.
2. Find the $x$-intercept of the line described by the equation $-3 x-2 y=6$.

Answers: 1.-2 2.-2

