## Exercise 54

For the following exercises, sketch the graph of each equation.

$$
4 x=-9 y+36
$$

## Solution

Solve the given equation for $y$.

$$
\begin{gathered}
-9 y=4 x-36 \\
y=-\frac{4}{9} x+4
\end{gathered}
$$

This line has a slope of $-4 / 9$ and passes through the $y$-axis at 4 .


