## Exercise 1

Determine whether the algebraic equation is linear. $2 x+3 y=7$

## Solution

The equation is linear because it can be put in the form, $y=m x+b$.

$$
\begin{gathered}
2 x+3 y=7 \\
3 y=-2 x+7 \\
y=-\frac{2}{3} x+\frac{7}{3}
\end{gathered}
$$

