Exercise 10

For the following exercises, determine whether the equation of the curve can be written as a linear function.

$$3x + 5y = 15$$

Solution

Solve the equation for y.

$$5y = -3x + 15$$

$$y = -\frac{3}{5}x + 3$$

This equation is a linear function because it has the form,

$$y = mx + b,$$

where $m = -3/5$ and $b = 3$.