## Exercise 12

For the following exercises, solve the equations below and express the answer using set notation.

|5x - 2| = 11

## Solution

Remove the absolute value sign by placing  $\pm$  (read as "plus or minus") on the right side.

$$|5x - 2| = 11$$
  

$$5x - 2 = \pm 11$$
  

$$5x - 2 = 11 \text{ or } 5x - 2 = -11$$
  

$$5x = 13 \text{ or } 5x = -9$$
  

$$x = \frac{13}{5} \text{ or } x = -\frac{9}{5}$$
  

$$x = \int \frac{9}{5} \frac{13}{5}$$

Therefore,