Solve.
$$|x + 2| = 3x - 6$$

$$|x + 2| = -3x + 6 \text{ or } 8 = 2x$$

$$|x + 2| = -3x + 6 \text{ or } 8 = 2x$$

$$|x + 2| = -3x + 6 \text{ or } 8 = 2x$$
Not a solution to the original equation.

Sec 2-1:

A Relation is: A relation is a set of pairs of input and output values.

A bunch of points!

There may or may not be any special relationship amongst the points.

Extraneous Solution:

A solution to an equation that doesn't make the original equation true.

For absolute value equations, extraneous solutions are possible when there is a variable outside of the absolute value symbols.

Use this relation:

State the Domain and Range of this relation