

### 7.5 Key Concepts 3 Equation of a Vertical Line Worked Example

**Example:** Write the equation of a vertical line passing through the point  $(-2, 5)$ .

**Solution:** A vertical line has a constant value of  $x$  for all points. The equation of the line is

$$x = -2$$

**Practice:**

1. Write the equation of a vertical line passing through the point  $(3, -7)$ .

2. Write the equation of a vertical line passing through the point  $(10, -4)$ .

Answers: 1.  $x = 3$  2.  $x = 10$