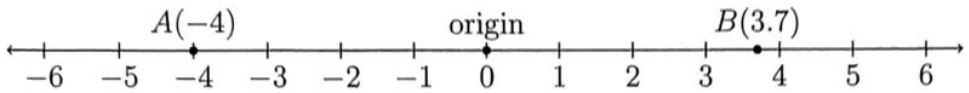
BECA / Dr. Huson / Geometry
Unit 1: Segments, length, and area
8 Sept 2022

Name: Solutions

1.1 Extension: Absolute value

1. Write down the distance of each point from the origin. Use absolute value notation.



A. $|-4| =$ 4 B. 3.7

2. Find the value of each expression.

(a) $|-3| =$ 3

(b) $|5| =$ 5

(c) $|-2.75| =$ 2.75

(d) $|11-3| =$ 8

(e) $|3-11| =$ 8

(f) $|5+(-7)| =$ 2

3. Circle true or false for each statement.

(T) **F** The absolute value of any number must be postive or zero.

(T) **F** In the equation $|x| = 4$ the value of x could be positive 4.

(T) **F** If $x = -5$ then $|x| = 5$.

(T) **F** The following equation is never true for any x: $|x| = -10$.

4. Given that $x = -5$, find the value of each expression.

(a) $|x+2| =$ 3

(b) $|-x| =$ 5

(c) $|2x| =$ 10

(d) $|6-x| =$ 11