

Simplifying Absolute Value Problems

Evaluate each expression.

1) $|-1 - 2|$

2) $9 \div (|3|)$

3) $|1 - 4| \times -2$

4) $-\frac{12}{|-1| + 1}$

5) $|1 - -3| + |5|$

6) $(|3 - 3| - -4) \times 5$

Evaluate each using the values given.

7) $b - |a|$; use $a = 5$, and $b = 6$

8) $|x + y|$; use $x = 3$, and $y = -5$

9) $q - |r|$; use $q = 3$, and $r = -1$

10) $|j - h|$; use $h = 5$, and $j = 6$

Answers

Evaluate each expression.

$$1) \quad |-1 - 2|$$

3

$$2) \quad 9 \div (|3|)$$

3

$$3) \quad |1 - 4| \times -2$$

-6

$$4) \quad -\frac{12}{|-1| + 1}$$

-6

$$5) \quad |1 - -3| + |5|$$

9

$$6) \quad (|3 - 3| - -4) \times 5$$

20

Evaluate each using the values given.

$$7) \quad b - |a|; \text{ use } a = 5, \text{ and } b = 6$$

1

$$8) \quad |x + y|; \text{ use } x = 3, \text{ and } y = -5$$

2

$$9) \quad q - |r|; \text{ use } q = 3, \text{ and } r = -1$$

2

$$10) \quad |j - h|; \text{ use } h = 5, \text{ and } j = 6$$

1

11) $x - (|z| + x)$; use $x = 6$, and $z = 3$

12) $6|x + y|$; use $x = 1$, and $y = 1$

13) $(|p + q|) \div 5$; use $p = -2$, and $q = -3$

14) $j(h - |h|)$; use $h = -1$, and $j = 5$

15) $|2| + h + |j|$; use $h = 6$, and $j = -4$

16) $|x - y| + y - 1$; use $x = -3$, and $y = -6$

17) $3 - (p + |m - m|)$; use $m = 4$, and $p = -4$

18) $n(m + |-1|) - n$; use $m = 1$, and $n = -6$

19) $|ab| - |b| + b$; use $a = 3$, and $b = 6$

20) $x - (x + y - |-x|)$; use $x = -2$, and $y = 4$

Answers

11) $x - (|z| + x)$; use $x = 6$, and $z = 3$

-3

12) $6|x + y|$; use $x = 1$, and $y = 1$

12

13) $(|p + q|) \div 5$; use $p = -2$, and $q = -3$

1

14) $j(h - |h|)$; use $h = -1$, and $j = 5$

-10

15) $|2| + h + |j|$; use $h = 6$, and $j = -4$

12

16) $|x - y| + y - 1$; use $x = -3$, and $y = -6$

-4

17) $3 - (p + |m - m|)$; use $m = 4$, and $p = -4$

7

18) $n(m + |-1|) - n$; use $m = 1$, and $n = -6$

-6

19) $|ab| - |b| + b$; use $a = 3$, and $b = 6$

18

20) $x - (x + y - |-x|)$; use $x = -2$, and $y = 4$

-2