

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Absolute Value Expression</b>
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M

Evaluate the value of each expression:

1) $f(x) = 4 x - 3 $ at $x = -\frac{1}{2}$  $f\left(-\frac{1}{2}\right) =$	2) $f(x) = - 5x + 2 $ at $x = 2$  $f(2) =$
3) $f(x) = -\frac{3 x + 1 }{2}$ at $x = -1$  $f(-1) =$	4) $f(x) = -\left \frac{2x - 3}{3}\right $ at $x = 3$  $f(3) =$
5) $f(x) = 6 x $ at $x = -4$  $f\left(\frac{3}{2}\right) =$	6) $f(x) = -\frac{2 x - 1 }{3}$ at $x = -2$  $f(-2) =$
7) $f(x) = \frac{2 x - 1 }{3}$ at $x = -2$  $f(-6) =$	8) $f(x) = 10 x $ at $x = 4$  $f\left(\frac{-5}{3}\right) =$
9) $f(x) = \frac{2 x - 1 }{3}$ at $x = -3$  $f(1) =$	10) $f(x) = -\left \frac{1}{x} + 3\right $ at $x = -3$  $f(-3) =$
11) $f(x) = \frac{2 x - 1 }{3}$ at $x = -3$  $f(1) =$	12) $f(x) = -\left \frac{1}{x} + 3\right $ at $x = 2$  $f(2) =$
13) $f(x) = 4 + 2 x $ at $x = -\frac{2}{3}$  $f\left(-\frac{2}{3}\right) =$	14) $f(x) = -\left \frac{1}{x} + 3\right $ at $x = 2$  $f(2) =$

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Name: \_\_\_\_\_

Answer key

Score: \_\_\_\_\_

<b>Absolute Value Expression</b>
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M

1)  $f(x) = 4|x - 3|$  at  $x = -\frac{1}{2}$

$f\left(-\frac{1}{2}\right) = 14$

2)  $f(x) = -|5x + 2|$  at  $x = 2$

$f(2) = -12$

3)  $f(x) = -\frac{3|x + 1|}{2}$  at  $x = -1$

$f(-1) = 0$

4)  $f(x) = -\left|\frac{2x - 3}{5}\right|$  at  $x = 3$

5)  $f(x) = 6|x|$

$f\left(\frac{3}{2}\right) = 11$

7)  $f(x) = \frac{2|x - 3|}{3}$

$f(-6) = \frac{14}{3}$

9)  $f(x) = 10|x|$

$f\left(-\frac{5}{3}\right) = \frac{38}{3}$

11)  $f(x) = \frac{2}{|x - 3|}$

$f(1) = \frac{1}{2}$

13)  $f(x) = 4 + 2|x|$  at  $x = -\frac{2}{3}$

$f\left(-\frac{2}{3}\right) = \frac{16}{3}$

14)  $f(x) = -\left|\frac{1}{x} + 3\right|$  at  $x = 2$

$f(2) = -\frac{7}{2}$

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