

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

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

**Absolute Value Expression**

Evaluate the value of each expression:

1) $f(x) = -4 x - 2  + 5$ at $x = -\frac{3}{2}$ $f\left(-\frac{3}{2}\right) =$	2) $f(x) = 5 x + 1  + 2$ at $x = 2$ $f(2) =$
3) $f(x) = -\frac{3 2x + 3 }{2} - 1$ at $x = -1$ $f(-1) =$	4) $f(x) = \frac{ 6x + 2 }{4} + 7$ at $x = -4$ $f(-4) =$
5) $f(x) =  7x + 9  + 5$ at $x = \frac{1}{2}$ $f\left(\frac{1}{2}\right) =$	6) $f(x) = 2 8 + 3x  - 3$ at $x = -2$ $f(-2) =$
7) $f(x) = \frac{6 1 + 2x }{3} + 7$ at $x = 3$ $f(3) =$	8) $f(x) = \frac{3}{4 2 + 7x }$ at $x = 1$ $f(1) =$
9) $f(x) = 4 9x + 2  + 12$ at $x = -\frac{2}{3}$ $f\left(-\frac{2}{3}\right) =$	10) $f(x) = \frac{ 5x + 1 }{4} + 8$ at $x = -2$ $f(-2) =$
11) $f(x) = -\frac{5 4 + 3x }{4} + 6$ at $x = 4$ $f(4) =$	12) $f(x) = -\frac{ 19x + \frac{1}{2} }{3} + 1$ at $x = 1$ $f(1) =$
13) $f(x) =  7 + 9x  - 10$ at $x = -\frac{5}{3}$ $f\left(-\frac{5}{3}\right) =$	14) $f(x) = \frac{8}{2 x - 6 } - 1$ at $x = -2$ $f(-3) =$

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**Answers:**

1) $f(x) = -4 x - 2  + 5$ at $x = -\frac{3}{2}$  $f\left(-\frac{3}{2}\right) = -9$	2) $f(x) = 5 x + 1  + 2$ at $x = 2$  $f(2) = 17$
3) $f(x) = -\frac{3 2x + 3 }{2} - 1$ at $x = -1$  $f(-1) = -\frac{5}{2}$	4) $f(x) = \frac{ 6x + 2 }{4} + 7$ at $x = -4$  $f(-4) = \frac{25}{2}$
5) $f(x) =  7x + 9  + 5$ at $x = \frac{1}{2}$  $f\left(\frac{1}{2}\right) = \frac{35}{2}$	6) $f(x) = 2 8 + 3x  - 3$ at $x = -2$  $f(-2) = 1$
7) $f(x) = \frac{6 1 + 2x }{3} + 7$ at $x = 3$  $f(3) = 21$	8) $f(x) = \frac{3}{4 2 + 7x }$ at $x = 1$  $f(1) = \frac{1}{12}$
9) $f(x) = 4 9x + 2  + 12$ at $x = -\frac{2}{3}$  $f\left(-\frac{2}{3}\right) = 28$	10) $f(x) = \frac{ 5x + 1 }{4} + 8$ at $x = -2$  $f(-2) = \frac{41}{4}$
11) $f(x) = -\frac{5 4 + 3x }{4} + 6$ at $x = 4$  $f(4) = -14$	12) $f(x) = -\frac{ 19x + \frac{1}{2} }{3} + 1$ at $x = 1$  $f(1) = -\frac{11}{2}$
13) $f(x) =  7 + 9x  - 10$ at $x = -\frac{5}{3}$  $f\left(-\frac{5}{3}\right) = -2$	14) $f(x) = \frac{8}{2 x - 6 } - 1$ at $x = -2$  $f(-3) = -\frac{1}{2}$