

Evaluating Algebraic Expressions

Math 43

Evaluate the following algebraic expressions. Please show your work.

1. $2x - 5$ at a) $x = 1$ b) $x = -1$ c) $x = \frac{1}{2}$

2. $2x^2 - 5$ at a) $x = 2$ b) $x = -2$ c) $x = \frac{2}{3}$

3. $|2x - 3y|$ at a) $x = 2, y = 3$ b) $x = -1, y = -\frac{1}{5}$

4. $y - |-3x + y|$ at $x = -2, y = -1$

5. $-3x + 2(x + y)$ at $x = -2, y = 2$

6. $\frac{5x}{y-3}$ at a) $x = 2, y = 4$ b) $x = 2, y = 3$

7. $(y - 3x)(2x - 3)^2$ at $x = -1, y = -\frac{3}{4}$