Lesson 1.3 Practice: Order of Operations and Evaluating Expressions

School Launch · Algebra I · Unit 1: Foundations: Real Numbers and Expressions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Evaluate $3x^2 - y$ for $x = 4$ and $y = -3$. EASY

2. Evaluate $3x^2 - 2y$ for $x = 5$ and $y = -1$. EASY

3. Evaluate $3x^2 - 5y$ for $x = -5$ and $y = 3$. EASY

4. Evaluate $\frac{x^2 - 4y}{x + y}$ for $x = 3$ and $y = -1$. MEDIUM

5. Evaluate $\frac{x^2 - 2y}{x + y}$ for $x = 5$ and $y = 2$. MEDIUM

6. Evaluate $\frac{x^2 - 4y}{x + y}$ for $x = 2$ and $y = 4$. MEDIUM

7. Evaluate $\frac{x^2 - 3y}{x + y}$ for $x = -1$ and $y = 3$. MEDIUM

8. Evaluate $-x^2 + 2xy - \frac{y^2}{2}$ for $x = -5$ and $y = -4$. HARD

9. Evaluate $-x^2 + 2xy - \frac{y^2}{2}$ for $x = 1$ and $y = -4$. HARD

10. Evaluate $-x^2 + 2xy - \frac{y^2}{2}$ for $x = -3$ and $y = 6$. HARD