

LAGUARDIA COMMUNITY COLLEGE
Department of Mathematics, Engineering, and Computer Sciences
MAT 096 ELEMENTARY ALGEBRA / PILOT
Lab 1

1. Simplify the expression: $(-6)^2$ and -6^2

2. Simplify $3 \times 2 - (2 - 2^3)^2$

3. Simplify $[(-8)^2 - 5^2] \div (-4 + 1)$

4. Simplify $|-14| - |7 - 8|$

5. Simplify $\frac{4-3 \times 2^2}{5+3(3^2-7)}$

6. Simplify $\frac{12+3^2(7-9)}{3-4(2^2-7)}$

7. Simplify $\frac{-3}{5} \cdot \frac{20}{27}$ and $\frac{-4}{15} \div \frac{-16}{25}$

8. Simplify $-\frac{14}{15} \cdot \frac{10}{21}$ and $\frac{9}{10} \div \frac{15}{-2}$

9. Evaluate $c - 7a$ when $a = 3$ and $c = -7$.

10. Evaluate $-c + 5a$ when $a = -3$ and $c = 5$

11. Evaluate $x^2 - 6y + 3$ when $x = 3$.

12. Evaluate $y^2 - 9y + 6$ when $y = -2$.