

Spring, 1999  
Peterson

MATH 105.

Homework 1.

**DUE: Friday, January 29.**

P1. Simplify the following expressions:

(1)  $2 + 6 \div 2 \cdot 3 - 7$ .

(2)  $((2 + 3)^2 - 5) \cdot 2$ .

(3)  $18 \div 2 \cdot 3$ .

(4)  $5 \cdot (1 - (3 - 5) + 4)$ .

(5)  $\frac{8 - 2 + 3 \cdot 4}{2 \cdot 3 - 4} + 7$ .

P2. Evaluate each of the following expressions when  $x = 2$  and  $y = -3$ :

(1)  $5x - 2y$ .

(2)  $|y - 3x|$ .

(3)  $(x + 2y - 3)y$ .

(4)  $x^2 - y^2$ .

P3. Express each of the following as a single fraction in reduced factored form.

(1)  $4.\overline{13}$ .

(2)  $4.\overline{13}$ .