

Spring, 1999  
Peterson

MATH 105.

Homework 2.

**Due: Friday, February 5.**

P1. Use our "Round bracket Square bracket" method to sketch graphs of the following:

(1)  $\{ x \mid x \geq 3 \}$

(2)  $\{ x \mid x < -2 \}$

(3)  $\{ x \mid -2 < x \leq 3 \}$

P2. Solve for  $x$  in each case. Exact answers are necessary.

(1)  $3x - 7 = 17 - x$  .

(2)  $2(x - 4) + 5(x - 6) = 18$  .

(3)  $3(x + 2) - 2(x - 1) = 1$  .

(4)  $4(2x - 1) - 3(x + 2) = 5$  .

(5)  $2(x - 3) + 5(x - 1) = 3(x + 3)$  .

(6)  $\frac{x}{4} + \frac{x}{6} = 5$  .

(7)  $\frac{x+5}{3} + \frac{x+7}{5} = 2$  .

(8)  $\frac{x-2}{3} - \frac{x+1}{5} = 1$  .

(9)  $\frac{2x-5}{3} - \frac{x+6}{2} = 1$  .

(10)  $.4(x + 3) + .15(x - 4) = 5$  .

(11)  $.3(x - 7) - .02(x + 1) = 6$  .