Math 05, Homework 4 on Sections 4.1 - 4.3
Hand in by Tue, Mar 1 at the start of class.

Write all your working out and answers on a separate sheet. It is very important that you show clearly any work you had to do to get the answer. These first ten questions are 2 points each and **the answers are on page 2**.

(1) Is -4 a solution of $-2x^2 + 4 = 7x$?

(2) Is 6 a solution of $3x - 10 > 9$?

(3) Is the ordered pair $(3, -2)$ a solution of $3x - 5y = 1$?

(4) Solve: $3x + 3 = -3$

(5) Solve: $8x = 4$

(6) Solve: $7x - 3 - 5x = 10 + 4x + 3$

(7) Solve: $x + 5(x + 2) = 3(3x - 2) + 18$

(8) Solve: $4(x - 2) - 2 = 4x + 10$

(9) If the sum of three consecutive integers is 42, find the three integers.

(10) Solve for y: $6x + 3y = 4$

These next eight questions are 2 points each. Show clearly all your working out and reasoning.

(11) Is -1 a solution of $5(2 - x) = 15x^2$?

(12) Is the ordered pair $(-2, 0)$ a solution of $3x - 23y = -6$?

(13) Solve: $-x = x$

(14) Solve: $x + 3 + 2x = 2 - x - 7$

(15) Solve: $2x - (x - 3) = 3(4 - x) + 1$

(16) Solve: $3x + 4(x + 1) = 7x + 4$

(17) If the sum of three consecutive integers is 63, find the three integers.

(18) Solve for x: $10x + 2y = 2z$

Answers to questions (1)-(10):

(1) Yes

(2) No

(3) No

(4) $x = -2$

(5) $x = 1/2$

(6) $x = -8$

(7) $x = -2/3$

(8) There are no solutions

(9) The integers are $13, 14, 15$

(10) $y = -2x + \dfrac{4}{3}$