Business PreCalculus MATH 1643 Section 004, Spring 2014

Worksheet 9

1- Solve each inequality

a. $4(1-x)+2x > 5(2-x)+4x$

b. $\frac{3x+1}{2} < x - \frac{3x}{2}$

c. $5(x+2) \leq 3(x+1)+10$

d. $\frac{2x-1}{3} \geq \frac{x+1}{4} + \frac{x}{12}$

e. $\frac{3x+1}{3} - \frac{x}{2} \leq \frac{x+2}{2}$

2- Solve each combined inequality

a. $9 \leq x+7 \leq 12$

b. $\frac{x-1}{2} > \frac{x}{3} - 1$ or $\frac{2x+5}{3} \leq \frac{x+1}{6}$

c. $2(x+1)+3 \geq 1$ and $2(2-x) > -6$

d. $\frac{2x+1}{3} \leq \frac{x}{4} + 1$ or $\frac{3-x}{2} > \frac{x}{3} - 1$

e. $5+3(x-1) < 3+3(x+1)$ and $3x-7 \leq 8$

f. $-4 \leq x-2 < 2$