

**Business PreCalculus**    MATH 1643 Section 004, Spring 2014  
**Homework 9: Due 2/10/2014**

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1- Solve each of the following inequalities:

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

b.  $3(x-2) + 2x < 2(x-2) + 6$

c.  $\frac{x}{2} - \frac{1-x}{7} > x + \frac{1}{2}$

2- Solve each of the following combined inequalities:

a.  $2 < \frac{x}{2} + 3 < 5$

b.  $\frac{x+1}{3} > \frac{x}{2} - 1$  or  $2 - \frac{1-3x}{2} \geq \frac{x}{2} + 13$

c.  $3 + 3(x-2) \leq 5 - 2(1-x)$  and  $5 + 4x > 3 - 2x$