

**Business PreCalculus**    MATH 1643 Section 004, Spring 2014  
**Homework 10: Due 2/12/2014**

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**1-** Solve each equation:

**a.**  $|x - 1| = |x + 5|$

**b.**  $3|1 - 2x| - 8 = 10$

**c.**  $|7x + 1| = 3x + 2$

**2-** Solve each inequality, please write the answer in the interval notation:

**a.**  $|\frac{9-2x}{3}| < 8$

**b.**  $|\frac{x}{2} - \frac{1}{3}| > \frac{2}{3}$

**c.**  $|2x + 1| \leq |x + 5|$