

**Business PreCalculus**    MATH 1643 Section 004, Spring 2014  
**Homework 8: Due 2/7/2014**

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1- Solve each of the following equations:

a.  $\frac{x}{2x+1} = \frac{3x+2}{4x+3}$

b.  $\frac{x}{x-2} + \frac{2}{x+3} = -\frac{10}{x^2+x-6}$

c.  $x + \sqrt{x+6} = 0$

d.  $\sqrt{6y-11} = 2y-7$

2- Solve each equation by using an appropriate substitution:

a.  $81y^4 + 1 = 18y^2$

b.  $x^{2/5} + x^{1/5} - 2 = 0$