Name_____

Date_____

Advanced Algebra

Unit 4 Quadratics:

Solve the following quadratic equations by whichever method seems easiest. You can get imaginary roots.

1) $8x^2 = 7 - 10x$

2) $4x = 1+15x^2$

3) $(3x-2)^2 = 121$

4) $(4y+4)^2 = -16$

5) $(4x + 7) (x-1) = 2(x-1)$

6) $(2x+1)(4x-3)= 3(4x-3)^2$

$\frac{x+3}{x-3} + \frac{x-3}{x+3} = \frac{18-6x}{x^2-9}$

$\frac{x+2}{x^2-x-6} = 3 - \frac{4}{x-3}$