

Name: \_\_\_\_\_

NS4 Math

**Homework: Solving 2<sup>nd</sup> degree equations**

Solve each of the following equations.

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

b)  $2x^2 - x = 10$

c)  $(2x + 1)^2 = 9$

d)  $x^3 + 2x^2 - 3x = 0$

e)  $(x + 5)(2x - 3) = 0$

f)  $x^2 + 3x - 54 = 0$

g)  $10n^2 - 37n - 36 = 0$

h)  $8p^2 - 8p = 2p - 3$

i)  $117k^2 - 36 = 13 - 4k^2$

j)  $2(n - 5)^2 = 82 - n^2$

k)  $27w^2 - 8w + 18w^3 - 12 = 0$

l)  $(2j + 3)(3j - 5) - 6(j^2 + j - 4) = -5$