

Mat 100  
Worksheet #5

1. Factor the following completely:

a.  $30y^3 - 25y^2$

b.  $y^3 + 2y^2 - y - 2$

c.  $a^2 + 9a - 36$

d.  $6a^2 + 17a + 12$

e.  $4x^2 - 49$

f.  $3r^3 + 3$

g.  $x^2 + 49$

Solve the following

a.  $x^2 - 16 = 6x$

b.  $2x^2 + 4 = -9x$

3. Write the polynomial that has the following zeroes:  $-3, 6$