

Math 002 Review Practice

21) Rationalize the denominator:

a)  $\frac{2}{\sqrt{3}}$

b)  $\frac{3}{5 + \sqrt{6}}$

22) The diagonal of a square is 8 feet. What is the length of each side?

23)  $g(x) = 3x^2 - 30x + 63$

a) Find  $g(0)$

b) Find  $g(n + 1)$

c) What is the vertex of the graph  $y = g(x)$  ?

d) What are the zeros of the function?

24) Solve:  $\sqrt{5x + 54} = x + 8$  (Identify extraneous solutions)

25) Sketch a graph of the following:  $f(x) = -2(x - 1)^2 + 4$

Label the vertex and 2 other points.

