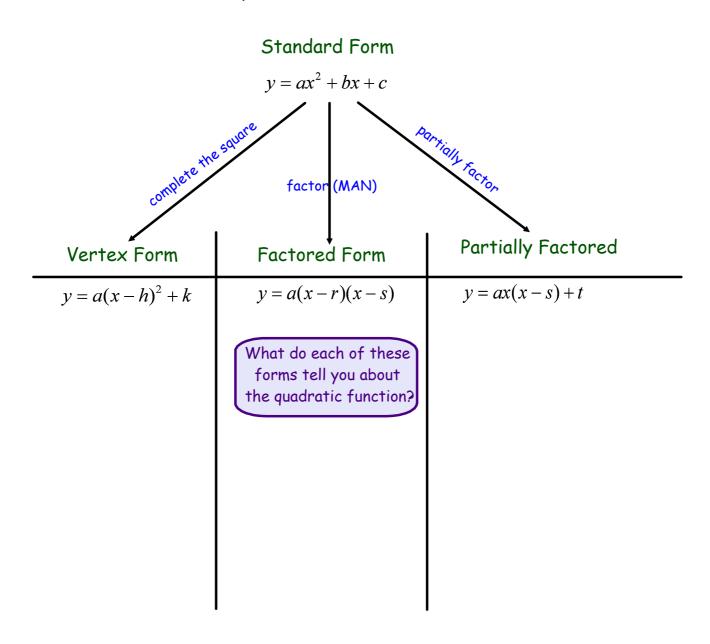
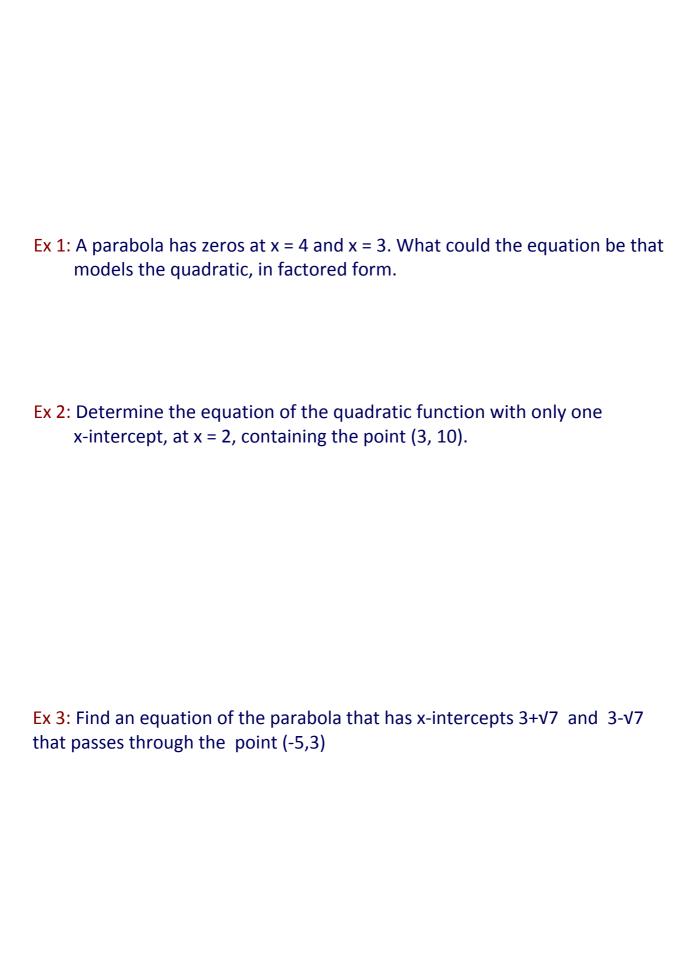
1.6 Determining a Quadratic Equation Given its Roots

Quadratics can be represented in a number of different forms:





- Ex 4: The parabolic opening to a tunnel is 32 m wide measured from side to side along the ground. At the point s are 4 m from each side, the tunnel entrance is 6 m high.
 - a) Sketch a diagram of the given information.
 - b) Determine the equation of the function that models the opening to the tunnel.
 - c) Find the maximum height of the tunnel, to the nearest tenth.