

# Quadratics

Foundations of Math 110 – Assignment

Total: 62 marks

1. Complete the table using the two equations which are given. (16 marks)

Equation	$y = x^2 - x - 30$	$y = -5(x - 1)(x + 3)$
Direction of Opening		
Maximum or Minimum		
Vertex		
Equation of the Axis of Symmetry		
x-intercepts		
y-intercept		
Domain		
Range		

2. Explain how the coordinates of the vertex help you find the maximum or minimum value of a quadratic and where that maximum or minimum occurs. (2 marks)
3. Sketch a graph of the quadratic equation from question 1a ( $y = x^2 - x - 30$ ), showing the information mentioned in the list. (6 marks)
4. Quadratic functions can also be given in factored form. One such function is  $y = (5 - x)(x - 15)$ . This parabola goes through the points (5, 0) and (15, 0). Use your knowledge of the symmetry of the parabola to find the vertex. (4 marks)
5. A rocket is fired off the ground at a target 200 metres away. It is designed to reach a height of 250 metres as it heads toward its target on a parabolic path. (6 marks)
- Find the equation that represents the height off the ground versus the distance travelled for this rocket.
  - An 85-metre-high building stands between the launch site and the target. The building is only 20 metres from the target. Will the rocket hit or miss the building? Explain or justify your answer.
6. A rectangular playing field will be divided by fences as shown here. A total of 800 metres of fence is available. Since we don't know the width, we can call it  $x$ . (6 marks)
- How many " $x$ " lengths of fencing will be used? How much of the 800 metres of fencing will that leave for the two long sides? How much fence will that leave for each one of the long sides?



# Tranforming Quadratics Kuta

**Lei Huang**



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