

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

RM Cervero



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The Top Books of the Year Transforming Quadratics Kuta The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Transforming Quadratics Kuta : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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