

MPM 2D
Mr. Kempe

Name: _____
Date: _____

Practice Quiz #3B – The Last Quadratic Quiz

[15 marks]

1. Convert the equation $y=2(x-1)^2-3$ to standard form. [4 marks]

2. Convert the equation $y=2x^2-4x-1$ to vertex form by completing the square. [4 marks]

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3. Determine the roots of $y = 2x^2 - 4x - 1$. [4 marks]

4. The path of an eagle swooping down across a lake is given by $h = -5t^2 + 100t - 501$, where t is the time in seconds and h is the height above the water's surface. A fish is swimming 2.5m below the surface of the lake. Is it safe from the eagle? [3 marks]