Agilemind - Topic 4 - Introduction to Polynomials

Exploring; "Deepening your understanding of quadratics and cubics"

Answer Question 1 - SAS4

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Answer Question 2 - SAS4

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Answer Question 3 - SAS4

Use a separate piece of graph paper to sketch the graph of this function which is NOT a cubic.

Abs Max value of 6 in the 2nd Quadrant

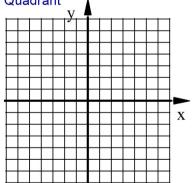
• Increasing: (-∞,-2) & (2,4)

• Decreasing: (-2,2) & (4,∞)

• Rel Min value of 1

• Rel Max value of 5

• y-intercept = 2.5



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 Abs Max value of 6 in the 2nd Quadrant this max must occur when x= -2 because that is where the graph changes from inc to dec.

Inc.

Increasing: (-∞,-2) & (2,4)

• Decreasing: (-2,2) & (4,∞)

• Rel Min value of 1 this min must occur when x= 2 because that is where the graph changes from dec to inc.

• Rel Max value of 5 this max must occur when x= 4 because that is where the graph changes from inc to dec.

• y-intercept = 2.5

