

Sketch the graph of the following quadratic function: $f(x) = -x^2 + 6x + 10$ State the domain and range of the function.

Your Turn

a) i) Apply the partial factoring strategy to locate two points that have the same y-coordinate on the following function: $f(x) = -x^2 - 3x$ ii) Determine the axis of symmetry and the location of the vertex of the function from part i).
iii) Explain how the process you used in parts i) and ii) is different from factoring a quadratic function.

b) Explain whether you would use partial factoring to graph the function $g(x) = -x^2 - 4x + 12$ Answers

a) i) (0, 12) and (-3, 12) (-3) (

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 $2x^2-5x-12$

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