

MATHEMATICS 201-009-50

Precalculus

Martin Huard

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Quiz #7

*This quiz is due **Tuesday October 2** at the beginning of the class.*

Question 1 (6 points)

Sketch the graph of the following function.

a) $f(x) = -(x-1)^3 + 4$

b) $f(x) = \sqrt{2x-6} - 2$

c) $f(x) = -2|x-3| - 2$

Question 2 (2 points)

Sketch the graph of the parabola $f(x) = x^2 - 2x - 15$ by finding the vertex as well as the intercepts.

Question 3 (2 points)

Find the equation of the parabola with vertex $(3, -1)$ and whose graph passes through the point $(2, -3)$.