KFUPM | Term 123 | Date: 24/6/2013

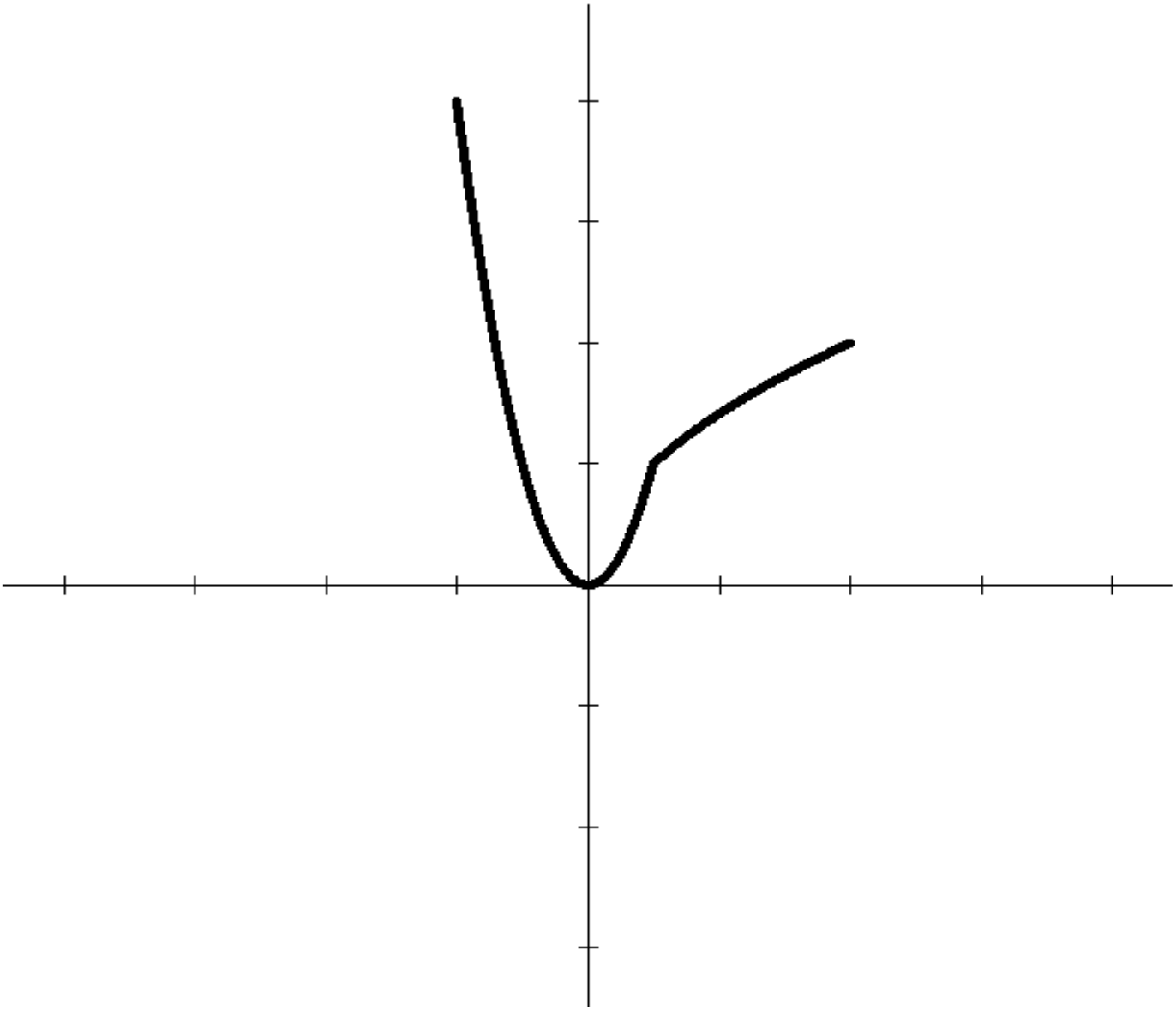
Mathematics & Statistics | MATH 101 | Duration: 20 minutes

Quiz# 2

Name: | ID #: | Section 6 | Serial #:

*Q*1. (5 points)

Given the graph below for the function ***Y***; sketch the graph of *dy*/*dx* on the same coordinates plane.



P.T.O. ➔

*Q*2. (5 points)

Can you find a number $c \in (-3,3)$ such that $\frac{x^2-3x-10}{8+2x-x^2} = -\frac{7}{6}$? Explain in detail.

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*Q*3. (5 points)

Find the constant *c* such that $f(x) = \begin{cases} c - x^2 , & x \le 2 \\ cx - 1 , & x > 2 \end{cases}$ is continuous at $x = 2$.

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*With My Best Wishes*