

# QUIZ 6

This quiz covers the memorized functions on page 255

INSTRUCTIONS: Do not plot any points and DO NOT USE GRAPHING CALCULATORS

$$f(x) = x$$

$$f(x) = x^2$$

$$f(x) = x^3$$

$$f(x) = |x|$$

$$f(x) = \sqrt{x}$$

# QUIZ 7

This quiz covers sections 2.5 and 2.6.

**PLEASE READ CAREFULLY**

**In this quiz NO CALCULATORS OF ANY TYPE ALLOWED**

**Imagine that I have no idea of what you are doing and you have to explain everything!!**  
**This applies to all the quizzes and of course your exams. Not explicit answers will not take full marks!!**

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Exercise 1: Using transformations of functions and showing every step do the graphs of the following functions:

$$f(x) = \frac{1}{2}(x - 1)^2 - 1$$

$$g(x) = -(x - 2)^3$$

$$h(x) = \sqrt{-x + 3}$$

(2-2-2 points)

Exercise 2: Find the domain of the following functions:

$$f(x) = \frac{2}{x^2 + x - 12}$$

$$g(x) = \sqrt{x - 3} + \sqrt{x + 4}$$

$$h(x) = \frac{1}{\frac{4}{x-1} - 2}$$

(1-2-1 points)