Quiz5, MAT 1375 Professor Chiu

ID:______ Name:______

- This quiz consists of 10 questions, each worth 1 points, for a total of 10 points.
- You have 10 minutes to complete the quiz.
- Scientific calculators are allowed.
- Wishing you success.

Ture or False questions:

- 1. The parabola $y = x^2 + 3$ is the parabola $y = x^2$ shifted up by 3 units.
- 2. The graph of f(x) = |x 3| + 2 is the absolute value function f(x) = |x| shifted to the right by 3 units and down by 2 unit.
- 3. The line y = 3x + 2 is the line y = 3x + 7 shifted down by 5 units.
- 4. The parabola $y = (x + 2)^2$ is the parabola $y = x^2$ shifted 2 units to the left.
- 5. The line y = 3(x 2) + 2 is the line y = 3x + 2 shifted 2 units to the right.

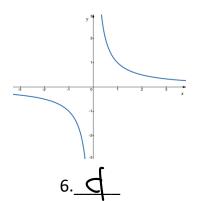
Pair the functions with the given graphs:

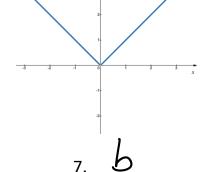
(a)
$$f(x) = \text{constant}$$
. (e) $f(x) = x^2$.

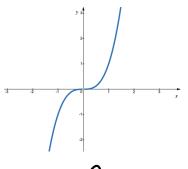
(b)
$$f(x) = |x|$$
. (f) $f(x) = \sqrt{x}$.

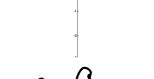
(c)
$$f(x) = x$$
. (g) $f(x) = x^3$.

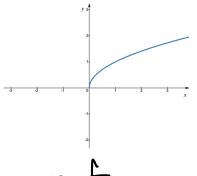
(d)
$$f(x) = \frac{1}{x}$$
. (h) $f(x) = \sqrt[3]{x}$.











8. 9



