Quiz5, MAT 1375 Professor Chiu

ID:_____   Name:___*Sol* ._____

- 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. __T__ The parabola $y = x^2 + 3$ is the parabola $y = x^2$ shifted up by 3 units.

2. __T__ ~~F~~ 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. __T__ The line $y = 3x + 2$ is the line $y = 3x + 7$ shifted down by 5 units.

4. __T__ The parabola $y = (x + 2)^2$ is the parabola $y = x^2$ shifted 2 units to the left.

5. __T__ The line $y = 3(x - 2) + 2$ is the line $y = 3x + 2$ shifted 2 units to the right.

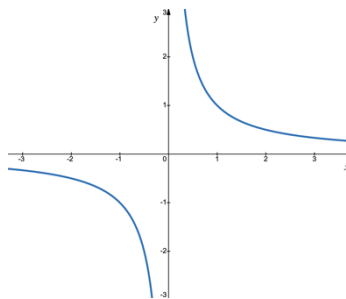   ↳ either "T" or "F" is current.

Pair the functions with the given graphs:

(a) $f(x) =$ constant.   (e) $f(x) = x^2$.
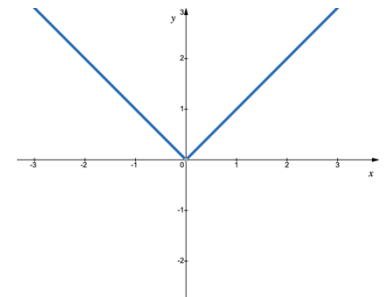
(b) $f(x) = |x|$.   (f) $f(x) = \sqrt{x}$.

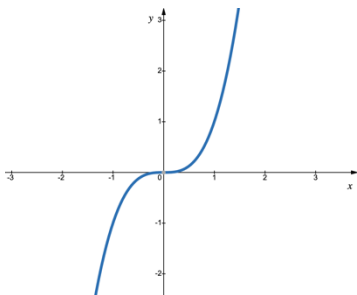(c) $f(x) = x$.   (g) $f(x) = x^3$.

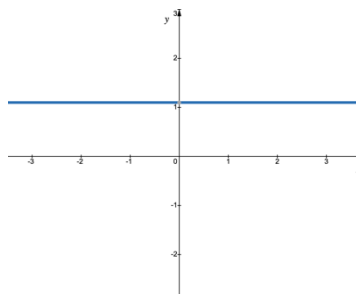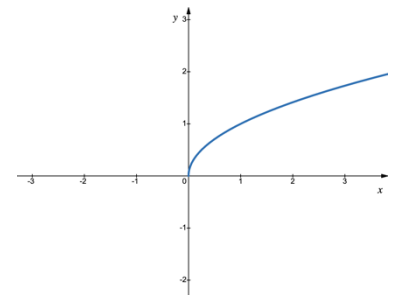(d) $f(x) = \dfrac{1}{x}$.   (h) $f(x) = \sqrt[3]{x}$.

6. __d__

7. __b__

8. __g__

9. __a__

10. __f__