PRINTABLE VERSION

Quiz 12

Question 1

Determine whether the following function is even, odd, or neither.

$$f(x) = -3x^4 - x^2 - 5$$

- a) Odd
- b) Neither
- c) O Even

Question 2

Suppose that y = f(x) is an odd function such that (2, -1) is a point on the graph of f. Which of the following points belong to the graph of f?

- a) (2,1)
- **b)** \bigcirc (-1, -2)
- c) \circ (-2,-1)
- **d)** \bigcirc (1,-2)
- e) (-2,1)
- f) O None of the above

Question 3

What transformation is needed to go from the graph of the basic function

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

to the graph of

$$g\left(x\right) = \left(x - 4\right)^2$$

- a) O Shift down 4 units
- **b)** O Shift up 4 units
- c) \bigcirc Reflect across the y-axis

- d) O Shift right 4 units
- e) O Shift left 4 units
- f) O None of the above

Question 4

What transformations are needed to go from the graph of the basic function

$$f(x) = \sqrt[3]{x}$$

to the graph of

$$g\left(x\right) = \sqrt[3]{x-5} + 17$$

- a) O Shift right 5 units, and shift down 17 units.
- **b)** O Shift right 5 units, and shift up 17 units.
- c) Shift left 17 units, and shift up 5 units.
- d) O Shift left 5 units, and shift up 17 units.
- e) O Shift up 5 units.
- f) None of the above

Question 5

What transformation is needed to go from the graph of the basic function

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

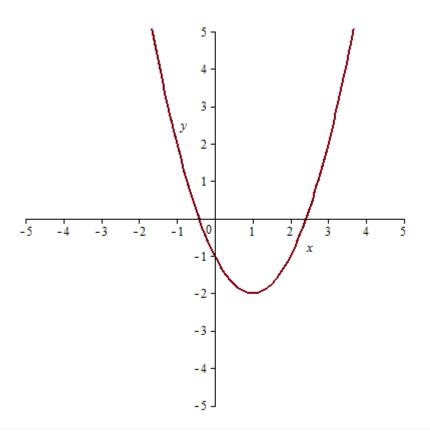
to the graph of

$$g\left(x\right) = -\sqrt{x - 11}$$

- a) \bigcirc Reflect across the x-axis, and shift up 11 units.
- **b)** Reflect across the y-axis, and shift left 11 units.
- c) \bigcirc Reflect across the y-axis, and shift right 11 units.
- d) \bigcirc Reflect across the x-axis, and shift left 11 units.
- e) \bigcirc Reflect across the x-axis, and shift right 11 units.
- f) O None of the above

Question 6

Which of the following functions matches the graph below?



a)
$$\bigcirc f(x) = (x-1)^2 + 2$$

b)
$$\bigcirc f(x) = (x+1)^2 - 2$$

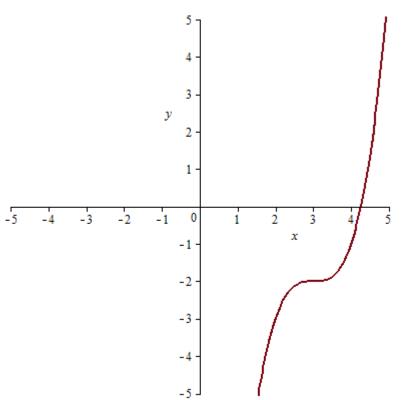
c)
$$\bigcirc f(x) = (x-2)^2 - 1$$

d)
$$\bigcirc f(x) = (x-1)^2 - 2$$

e)
$$\bigcirc f(x) = (x+2)^2 - 1$$

f) None of the above

Question 7



a)
$$\bigcirc f(x) = -(x-3)^3 - 2$$

b)
$$\bigcirc f(x) = (x-3)^3 - 2$$

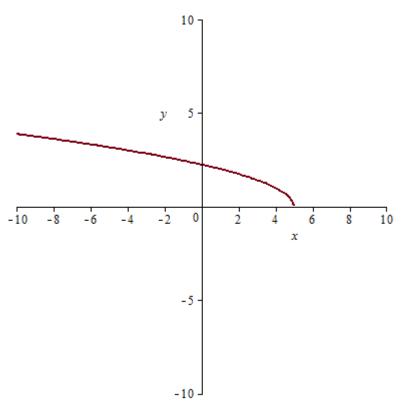
c)
$$\bigcirc f(x) = (x+3)^3 - 2$$

d)
$$\bigcirc f(x) = (x+2)^3 - 3$$

e)
$$\bigcirc f(x) = (x-2)^3 + 3$$

f) None of the above

Question 8



a)
$$\bigcirc f(x) = \sqrt{-x+5}$$

b)
$$\bigcirc f(x) = \sqrt{x+5}$$

c)
$$\bigcirc f(x) = \sqrt{x-5}$$

$$\mathbf{d)} \, \bigcirc f(x) = -\sqrt{-5-x}$$

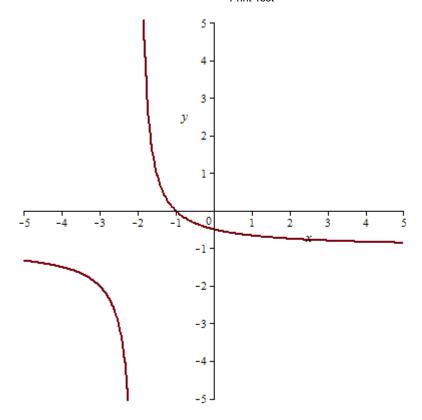
e)
$$\bigcirc f(x) = -\sqrt{x+5}$$

f) • None of the above

Question 9

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Print Test



a)
$$\bigcirc f(x) = \frac{1}{x+2} - 1$$

$$\mathbf{b)} \, \bigcirc f(x) = \frac{1}{x+1} + 2$$

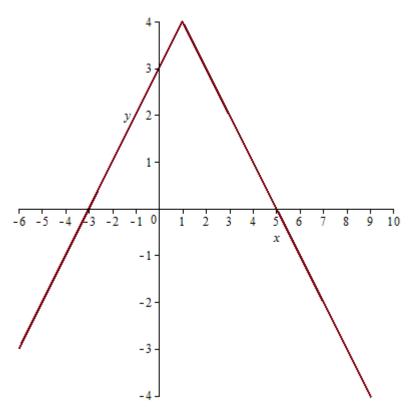
c)
$$\bigcirc f(x) = \frac{1}{x-1} + 2$$

$$\mathbf{d)} \, \bigcirc f(x) = \frac{1}{x+2} + 1$$

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

f) O None of the above

Question 10



a)
$$\bigcirc f(x) = -|x-1|+4$$

b)
$$\bigcirc f(x) = |x-1| - 4$$

c)
$$0 f(x) = |x+1| + 4$$

d)
$$\bigcirc f(x) = -|x-1|-4$$

e)
$$\bigcirc f(x) = |x+1| - 4$$

f) None of the above