

Directions: Please identify a, b, and c for the following quadratic functions.

$$f(x) = ax^2 + bx + c$$

$$f(x) = 2x^2 + 4x + 8$$

**a:** 2

**b:** 4

**c:** 8

$$f(x) = 2x^2 + 4x + 8$$

$$m(x) = 6x^2 + 9x + \pi$$

**a:** 6

**b:** 9

**c:** pi

$$m(x) = 6x^2 + 9x + \pi$$

$$f(x) = 9x^2 - x - 8$$

$$\mathbf{a: \underline{9}}$$

$$\mathbf{b: \underline{-1}}$$

$$\mathbf{c: \underline{-8}}$$

$$f(x) = 9x^2 - x - 8$$

$$d(x) = x^2 + x - 4$$

**a:**  $\underline{\quad 1 \quad}$

**b:**  $\underline{\quad 1 \quad}$

**c:**  $\underline{\quad -4 \quad}$

$$d(x) = x^2 + x - 4$$

$$f(x) = -x^2 + 3x$$

**a:** -1

**b:** 3

**c:** 0

$$f(x) = -x^2 + 3x$$

$$p(x) = 98 - 6x^2$$

**a:** -6

**b:** 0

**c:** 98

$$p(x) = 98 - 6x^2$$

$$f(x) = \sqrt{5x^2} + \sqrt{7x}$$

**a:**  $\frac{\sqrt{5}}{\quad}$

**b:**  $\frac{\sqrt{7}}{\quad}$

**c:**  $\frac{0}{\quad}$

$$f(x) = \sqrt{5}x^2 + \sqrt{7}x$$

$$h(x) = 5x - 4x^2 + 8$$

**a:**     -4    

**b:**     5    

$$h(x) = 5x - 4x^2 + 8$$

**c:**     8

$$b(x) = \sqrt{2x^2} + 6$$

**a:**  $\sqrt{2}$

**b:**  $0$

**c:**  $6$

$$b(x) = \sqrt{2}x^2 + 6$$

$$f(x) = -\frac{2}{3}x^2 + \frac{1}{2} - 9x$$

**a:**  $-\frac{2}{3}$

**b:**  $-9$

**c:**  $\frac{1}{2}$

$$f(x) = -\frac{2}{3}x^2 + \frac{1}{2} - 9x$$

$$p(x) = 5x - x^2$$

**a:**  $\underline{-1}$

**b:**  $\underline{5}$

**c:**  $\underline{0}$

$$p(x) = 5x - x^2$$

$$b(x) = \sqrt{2x^2} + 6$$

**a:**  $\sqrt{2}$

**b:** 0

$$b(x) = \sqrt{2}x^2 + 6$$

**c:** 6

$$M(x) = -5x + 8x^2$$

**a:** 8

**b:** -5

**c:** 0

$$m(x) = -5x + 8x^2$$

$$f(x) = \frac{2}{7}x^2$$

**a:**  $\frac{2}{7}$

**b:**  $0$

**c:**  $0$

$$f(x) = \frac{2}{7}x^2$$