Which of these statements correctly describes the function $h(x) = 4x^2 - 4$?

A. The function $h(x)$ is even.

B. The function $h(x)$ is odd.

C. The function $h(x)$ is both even and odd.

D. The function $h(x)$ is neither even nor odd.

Which of the following functions has a graph that shows a parabola that opens downward?

A. $f(x) = -5(x - 2)$

B. $h(x) = (x + 6)^2 - 7$

C. $m(x) = \frac{1}{2}(x - 1)^2 + \frac{1}{4}$

D. $p(x) = -2(x + 3)^2 + 5$

8. Which of the following shows a quadratic expression and its factored form?

A. $4x^2 - 3x^2 + 1; 4(x - 3)(x + 1)$

B. $5x^2 - 10x - 15; 5(x - 1)(x + 3)$

C. $-3x^2 - 2x - 8; -3(x - 4)(x + 2)$

D. $-2x^2 + 18; -2(x - 3)(x + 3)$

9. A small museum uses the function $V(x) = -(x - 8)^2 + 64$ to model the number of visitors who are present x hours after the museum opens. For which interval of x does the function make sense?

A. (0, 8)

B. (0, 16)

C. (0, 64)

D. (0, 128)

. Several input- and output- values of the quadratic function $f(x)$ on the interval [0, 8] are recorded below.

x	0	1	2	3	4	5	6	7	8
$f(x)$	7	8	11	16	23	32	43	56	71

During which of the following subintervals was the rate of change of $f(x)$ equal to the average rate of change of $f(x)$ on the interval [0, 8]?

A. [1, 8]

B. [2, 6]

C. [3, 7]

D. [4, 5]