Multiple Choice

1) Which of the following function represents the graph?

a) \( f(x) = x^2 + 12x + 32 \)  
b) \( f(x) = \frac{1}{4}(x - 1)^2 + 9 \)  
c) \( f(x) = (x - 6)^2 - 4 \)

2) Which of the following function represents the graph?

a) \( f(x) = 3x^2 + 12x + 9 \)  
b) \( f(x) = 3(x - 3)(x - 1) \)  
c) \( f(x) = -3(x - 4)(x + 1) \)

3) Which of the following function represents the graph?

a) \( f(x) = x^2 + 6x - 10 \)

4) Which of the following function represents the graph?

a) \( f(x) = -x^2 - 4 \)

5) Which of the following function represents the graph?

a) \( f(x) = 5x^2 - 20x + 15 \)  
b) \( f(x) = 5(x + 2)^2 - 5 \)  
c) \( f(x) = \frac{1}{6}(x + 3)^2 + 7 \)

6) Which of the following function represents the graph?

a) \( f(x) = -x^2 + 8x + 12 \)  
b) \( f(x) = x^2 + 7x + 5 \)  
c) \( f(x) = -(x + 2)(x + 6) \)
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