Conics

Score: _____

1. Which equation below represents a parabola that opens upward with a vertex at (0, -5)?

(A) $y = x^2 + 5$

(B) $y = x^2 - 5$

(C) $y = (x - 5)^2$

(D) $y = (x + 5)^2$

(E) None of the above

2. What are the vertices of the ellipse $(x-1)^2+(y^2)/25=1$?

(A) (1, 5) and (1, -5)

(B) (0, 5) and (0, -5)

(C) (1, 1) and (1, -1)

(D) (0, 1) and (0, -1)

(E) None of the above

3. What is the value of a^2 for the given hyperbola?

(A) 1

(B) -2

(C) 25

(D) 16

(E) None of the above