

## Section 7.5 WS II

Date \_\_\_\_\_ Period \_\_\_\_\_

Write the equation  $y - k = a(x - h)^2$  for each parabola described.

1) Vertex:  $(4, -3)$ ; contains  $(2, -1)$ 2) Vertex:  $(0, 0)$ ; contains  $(-3, 3)$ 3) Vertex:  $(3, 5)$ ; contains  $y$  - intercept of 2.4) Vertex:  $(3, 5)$ ; contains  $(3, 0)$ 5) Vertex:  $(-3, -4)$ ; contains  $(-3, -5)$ 6) Vertex:  $(8, -8)$ ; contains  $(8, -7)$

7) Vertex:  $(5, -8)$ ; contains  $(8, 1)$

8) Vertex:  $(-4, -5)$ ; contains  $(-5, 5)$

9) Vertex:  $(-1, 7)$ ; contains  $(0, 8)$

10) Vertex:  $(3, 3)$ ; contains  $(1, -1)$

11) Vertex:  $(0, -9)$ ; contains  $(2, 3)$

12) Vertex:  $(-1, 3)$ ; contains  $(2, 12)$