Acc. Pre-Calculus Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 6 Conics

WS-2: Parabolas Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block: \_\_

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| Students will recognize, analyze and graph the equations of the conic sections. |

1. For each parabola, write the equation in standard form, state the vertex, the focus and the directrix and then graph.
2. 

1. 
2. 
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10. Given the following information, write the standard form for each parabola.
11. Vertex: (3, 2); focus: (1, 2)
12. Vertex: (3, 2); focus: (-1, 2)
13. Vertex: (0, 4); directrix: y = 2
14. Vertex: (-2, 1); directrix: x = 1
15. Focus: (2, 2); directrix: x = -2
16. Focus: (0, 0); directrix: y = 4
17. Vertex: (0, 0); focus: (0, -2)
18. Vertex: (0, 0); directrix: x = 3
19. Focus: (2, 5); directrix: x = 3
20. Focus: (1, 3); vertex: (1, 2)