**M3 GRAPHING PARABOLAS HW**  NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Sketch the graph of each function. Then state the vertex, focus, and directrix.*

1. 2.



3. 4.



5. 6.





*Find the equation of the parabola given the information provided. Show all of your work.*

7. 8.

9. 10.

11. 12.