Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.6 Tan, Cot, Sec, Csc Parent Functions

Draw two cycles of each parent function. Fill in the information below each graph. Try to do so without your notes!!

1. tangent

Domain:\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Line of symmetry:\_\_\_\_\_\_\_\_\_\_\_

Increasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. cotangent

Domain:\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Line of symmetry:\_\_\_\_\_\_\_\_\_\_\_

Increasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. cosecant

Domain:\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Line of symmetry:\_\_\_\_\_\_\_\_\_\_\_

Increasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. secant

Domain:\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Line of symmetry:\_\_\_\_\_\_\_\_\_\_\_

Increasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_