2.7 Graphing Tangent, Cotangent, Secant, and Cosecant

2. \( g(x) = 5 \csc \left( \frac{1}{2}(x + \pi) \right) \)

4. \( y = -2 + \frac{1}{2} \sec(4(x - 1)) \)

6. \( h(x) = -\cot \left( \frac{1}{2}x \right) + 1 \)

8. This is a tangent graph. From the two points we are given, we can determine the phase shift, vertical shift and frequency. There is no phase shift, the vertical shift is 3 and the frequency is 6. \( y = 3 + \tan 6x \)