Implicit Differentiation Part 2

Math 184 - 922

Using the derivatives computed in Part one, find the equation for the tangent line to each of the following curves, and draw it on the graph provided you in class.

1. The point \((1, \frac{\sqrt{2}}{3})\) on the Cissoid.

2. The point \((2, \sqrt{8})\) on the Witch of Agnesi.

3. The point \((\sqrt{3}, 1)\) on the Cycloid.

4. The point \((-1, 1)\) on the Trisectrix when \(a = 1\).

5. The point \((-5, -\sqrt{2})\) on the Tschirnhausen Cubic when \(a = 1\).

6. The point \((2, -2\sqrt{3})\) when \(a = 1\) and \(b = 2\).