1. Use the Product and/or Quotient Rules on the following problems.
   Section 3.2: 13, 15, 17, 19, 21, 23, 25, 27, 35, 39.

2. Work Problem 51 from Section 3.2.

3. Where on the graph from Problem 51 is there a tangent line with slope -1/2?

4. Write \( y = \tan x \) as \( y = \frac{\sin x}{\cos x} \). Use the quotient rule to compute \( y' \). Simplify as far as possible.

5. Write \( y = \cot x \) as \( y = \frac{\cos x}{\sin x} \). Use the quotient rule to compute \( y' \). Simplify as far as possible.

6. Write \( y = \sec x \) as \( y = \frac{1}{\cos x} \). Use the quotient rule to compute \( y' \). Simplify as far as possible.

7. Write \( y = \csc x \) as \( y = \frac{1}{\sin x} \). Use the quotient rule to compute \( y' \). Simplify as far as possible.

Selected Answers

3) \( x = \pm \sqrt{3} \)