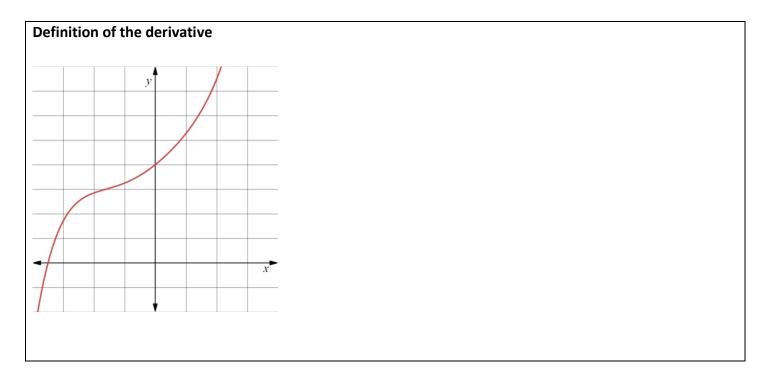
Name:\_\_\_\_\_

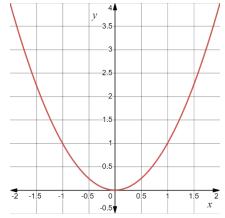
Date: \_\_\_\_\_

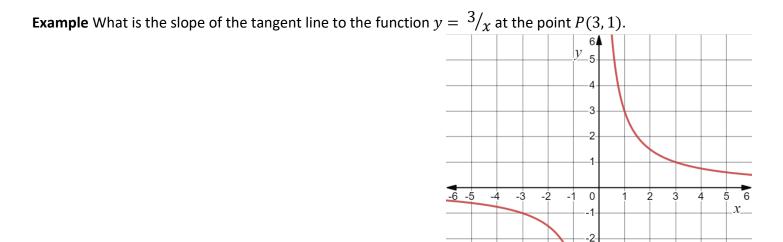
Learning Goal 2.2	Limits at infinity and the definition of the derivative
-------------------	---

**Recall** the difference quotient



**Example** Find the equation of the tangent line to the parabola  $y = x^2$  at the point P(1, 1).





**Example** Find R'(x) given  $R(x) = \sqrt{5x - 8}$  using the definition of the derivative.