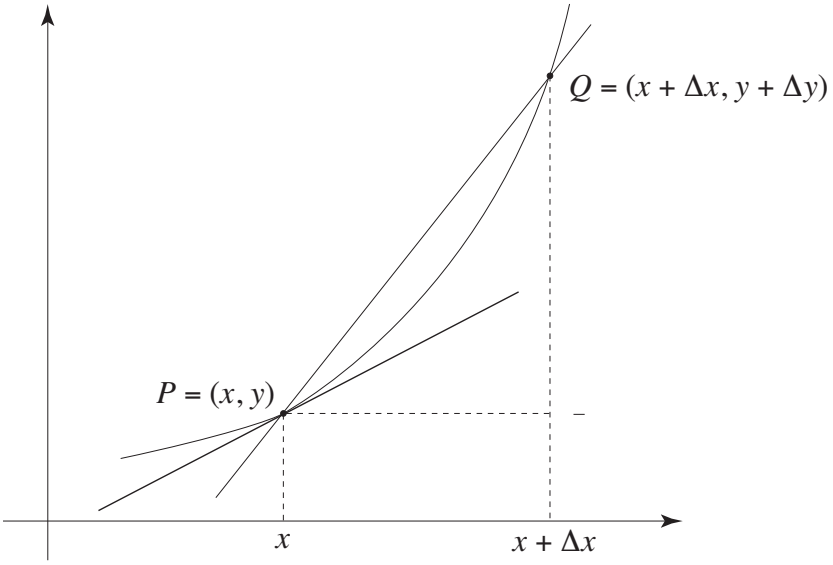
Quiz **Name**

1. Use Newton's argument (as developed in Section 6.2) to show that the derivative of the function $y = x^{\frac{3}{2}}$ is equal to $f'(x) = \frac{3}{2}x^{\frac{1}{2}}$. The figure below can serve as a guide.



2. Compute the derivatives of $f(x) = x^2$ as well as $g(x) = x^{-\frac{3}{7}}$.