



### Lesson 3.3 – Composite Functions

1. Find the derivative of each composite function.

(a)  $y = (3x - 4)^5$

(b)  $y = \sqrt[3]{x^2 - 2x}$

(c)  $y = \frac{6}{(x^2 - 2x + 1)^4}$

(d)  $y = \sqrt{9x^5 - 10}$  (use the square-root rule)

(e)  $y = \frac{1}{x^9 - 7x^3 + 1}$  (use the reciprocal rule)