Calculus: Derivatives · Grade 12

Name _____ Date _____ Score _____ / 6

01 d/dx $(8\sqrt{x})$ =

Answer: _____

02 d/dx $(-9x^6 - 3x^5 - 6x^2 + 5)$ =

Answer: _____

03 d/dx $(\frac{1}{x^4})$ =

Answer: _____

04 d/dx $(6e^{4x})$ =

Answer: _____

05 d/dx $(\frac{-9}{x})$ =

Answer: _____

06 d/dx $(\cos(3x))$ =

Answer: _____

Calculus: Derivatives · Grade 12 (Answer Key)

01 d/dx $(8\sqrt{x})$ =

$\frac{4}{\sqrt{x}}$

02 d/dx $(-9x^6 - 3x^5 - 6x^2 + 5)$ =

$-54x^5 - 15x^4 - 12x$

03 d/dx $(\frac{1}{x^4})$ =

$\frac{-4}{x^5}$

04 d/dx $(6e^{4x})$ =

$24e^{4x}$

05 d/dx $(\frac{-9}{x})$ =

$\frac{9}{x^2}$

06 d/dx $(\cos(3x))$ =

$-3\sin(3x)$