



DIFFERENTIATION THE RULE FOR POLYNOMIALS

NO CALCULATOR

Ref: G911. **1S1**

A1 Differentiate x^5	A2 Differentiate x^7	A3 Differentiate x^0	A4 Differentiate x^1
B1 Differentiate $9x$	B2 Differentiate 9	B3 Differentiate $5x$	B4 Differentiate 5
C1 Differentiate $5x^3$	C2 Differentiate $3x^5$	C3 Differentiate $3x^6$	C4 Differentiate $6x^{-2}$
D1 Differentiate $\frac{1}{2}x^2$	D2 Differentiate $\frac{1}{3}x^3$	D3 Differentiate $\frac{1}{2}x^4$	D4 Differentiate $\frac{3}{4}x$
E1 Differentiate x	E2 Differentiate -1	E3 Differentiate $4x^{2.5}$	E4 Differentiate $4x^{0.5}$



DIFFERENTIATION THE RULE FOR POLYNOMIALS

NO CALCULATOR

Ref: G911. **1S1**

A1 Differentiate x^5 $\frac{dy}{dx} = 5x^4$	A2 Differentiate x^7 $\frac{dy}{dx} = 7x^6$	A3 Differentiate x^0 $\frac{dy}{dx} = 0$	A4 Differentiate x^1 $\frac{dy}{dx} = 1x^0$ $= 1$
B1 Differentiate $9x$ $\frac{dy}{dx} = 9$	B2 Differentiate 9 $\frac{dy}{dx} = 0$	B3 Differentiate $5x$ $\frac{dy}{dx} = 5$	B4 Differentiate 5 $\frac{dy}{dx} = 0$
C1 Differentiate $5x^3$ $\frac{dy}{dx} = 15x^2$	C2 Differentiate $3x^5$ $\frac{dy}{dx} = 15x^4$	C3 Differentiate $3x^6$ $\frac{dy}{dx} = 18x^5$	C4 Differentiate $6x^{-2}$ $\frac{dy}{dx} = -12x^{-3}$
D1 Differentiate $\frac{1}{2}x^2$ $\frac{dy}{dx} = x^1$ $= x$	D2 Differentiate $\frac{1}{3}x^3$ $\frac{dy}{dx} = x^2$	D3 Differentiate $\frac{1}{2}x^4$ $\frac{dy}{dx} = 2x^3$	D4 Differentiate $\frac{3}{4}x$ $\frac{dy}{dx} = \frac{3}{4}$
E1 Differentiate x $\frac{dy}{dx} = 1$	E2 Differentiate -1 $\frac{dy}{dx} = 0$	E3 Differentiate $4x^{2.5}$ $\frac{dy}{dx} = 10x^{1.5}$	E4 Differentiate $4x^{0.5}$ $\frac{dy}{dx} = 2x^{-0.5}$