Differentiation GREEN

1. Find f’(x) given that f(x) equals:

 a. x5 b. 2x4 c. 8x

2. Find $\frac{dy}{dx}$ given that y equals:

 a. 7x3 b. $\frac{1}{x^{3}}$ c. 9

3. Find f’(x) given that f(x) equals:

 a. x2 + 5x b. 2x3 + x - 3

 c. 4x3 + $\frac{1}{x^{2}}$ d. 5 – 3x2 + x4

4. Find $\frac{dy}{dx}$ given that y equals:

 a. 3x2 + √x b. $\frac{2}{x^{3}}$ + 6x2

 c. x(x2 + 7) d. $\frac{3x^{2}-6}{x}$

Differentiation AMBER

1. Find f’(x) given that f(x) equals:

Multiply the coefficient by the index, then reduce the index by 1

 a. x5 b. 2x4 c. 8x

2. Find $\frac{dy}{dx}$ given that y equals:

 a. 7x3 b. $\frac{1}{x^{3}}$ c. 9

Laws of indices:

$\frac{1}{x^{a}}$ = x-a

√x = x½

3. Find f’(x) given that f(x) equals:

 a. x2 + 5x b. 2x3 + x - 3

 c. 4x3 + $\frac{1}{x^{2}}$ d. 5 – 3x2 + x4

4. Find $\frac{dy}{dx}$ given that y equals:

 a. 3x2 + √x b. $\frac{2}{x^{3}}$ + 6x2

 c. x(x2 + 7) d. $\frac{3x^{2}-6}{x}$

Expand the brackets first!

Differentiation RED

1. Find f’(x) given that f(x) equals:

Multiply the coefficient by the index, then reduce the index by 1

 a. x5 b. 2x4 c. 8x

 5x5-1 =

2. Find $\frac{dy}{dx}$ given that y equals:

 a. 7x3 b. $\frac{1}{x^{3}}$ c. 9

Laws of indices:

$\frac{1}{x^{a}}$ = x-a

√x = x½

3. Find f’(x) given that f(x) equals:

 a. x2 + 5x b. 2x3 + x - 3

 c. 4x3 + $\frac{1}{x^{2}}$ d. 5 – 3x2 + x4

4. Find $\frac{dy}{dx}$ given that y equals:

 a. 3x2 + √x b. $\frac{2}{x^{3}}$ + 6x2

 c. x(x2 + 7) d. $\frac{3x^{2}-6}{x}$

Expand the brackets first!