Differentiation GREEN

1. Find f’(x) given that f(x) equals:

a. x5 b. 2x4 c. 8x

2. Find given that y equals:

a. 7x3 b. c. 9

3. Find f’(x) given that f(x) equals:

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

c. 4x3 + d. 5 – 3x2 + x4

4. Find given that y equals:

a. 3x2 + √x b. + 6x2

c. x(x2 + 7) d.

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 given that y equals:

a. 7x3 b. c. 9

Laws of indices:

= x-a

√x = x½

3. Find f’(x) given that f(x) equals:

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

c. 4x3 + d. 5 – 3x2 + x4

4. Find given that y equals:

a. 3x2 + √x b. + 6x2

c. x(x2 + 7) d.

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 given that y equals:

a. 7x3 b. c. 9

Laws of indices:

= x-a

√x = x½

3. Find f’(x) given that f(x) equals:

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

c. 4x3 + d. 5 – 3x2 + x4

4. Find given that y equals:

a. 3x2 + √x b. + 6x2

c. x(x2 + 7) d.

Expand the brackets first!