

14th Dec



Corbettmaths

Find

$$\int \frac{3}{x^{4/5}} dx$$

Given

$$y = \frac{x^2 - 4x + 5}{x^2}$$

Find

$$\frac{dy}{dx}$$

The equation

$$kx^2 - 4x - 1 = 0$$

has no real roots.

Find the possible range of values of  $k$ 

The tangent to the curve

$$y = x^3 + 5x^2 - 2x + 1$$

at the point  $(1, 5)$  meets the  $x$ -axis  
at the point  $A$ .Find  $A$ .A curve has equation  $y = f(x)$  and  
passes through  $(5, 2)$ .Given  $f'(x) = 2x + 1$ , find  $f(x)$