

1st October

Corbettmaths

Simplify $\sqrt{48} + \sqrt{27}$

$$f(x) = \frac{x + 7}{2x + 1}$$

Write down a value of x that can not be in the domain of $f(x)$.

Write down the first 3 terms, in ascending powers of x , of the expansion of $(1 + ax)^4$

Given that the coefficient of x^2 is 18 times larger than the coefficient of x , find a .

Point A lies on the curve
 $y = x^2 - 2x + 13$

The x -coordinate of A is 2

Find the equation of the normal to the curve at A.