

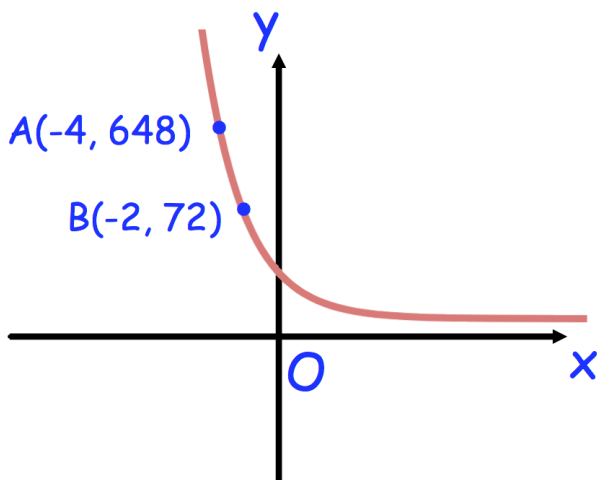
28th April

Corbettmaths

Simplify

$$\frac{9x^2 - 16}{x + 5} \times \frac{x^2 - 2x - 35}{3x + 4}$$

The sketch shows a curve with equation $y = ab^{-x}$ where $a > 0$ and $b > 0$



The curve passes through the points $(-4, 648)$ and $(-2, 72)$

Calculate the value of a and b

Work out the n th term of the sequence

6 12 20 30 ...

$A(-8, 9)$ and $B(13, -47)$

Given $AN:NB = 2 : 5$

Find the coordinates of point N .