

24th May

Corbettmaths

Solve the simultaneous equations

$$\frac{1}{4}y = x$$

$$y = x^2 + 3$$

The Venn diagram shows information about cars in a car park.

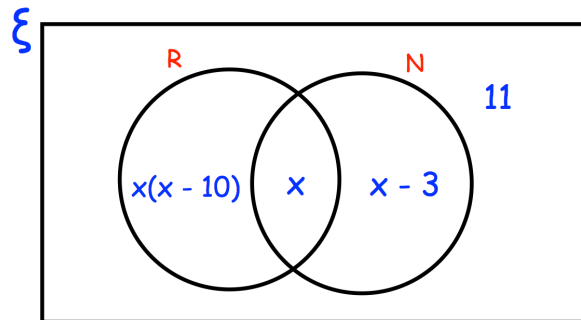
ξ = cars in the car park

R = red cars

N = cars under 4 years old

A car is chosen at random.

Given it is under 4 years old, find the probability that it is Red.



Find the first 3 terms of the sequence $n^2 - 4n + 25$

Prove every term in the sequence $n^2 - 4n + 25$ is positive.

The sketch shows a curve with equation $y = ab^x$ where a and b are constants and $b > 0$

The curve passes through the points (2, 90) and (4, 810)

Calculate the value of a and b

