



Expand and simplify

$$(3 + \sqrt{2})(\sqrt{10} + \sqrt{3})$$

Given

$$f(x) = \frac{x + 1}{3}$$

$$g(x) = 8x + 9$$

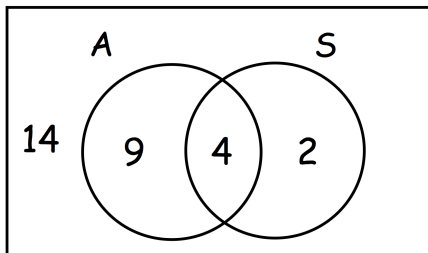
Solve

$$f^{-1}(x) = g(x)$$

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

A = cars with alloys

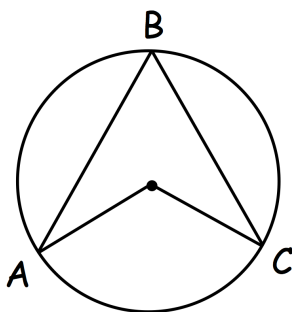
S = cars with spoilers

 $\xi$ 


A car is chosen at random.

The car does not have a spoiler.  
Find the probability that the car has alloys.

Find  $P(A \cup S)'$



Prove that the angle at the centre is twice the angle at the circumference.