

**10th November**

Corbettmaths

The square of  $w$  is 3Write down the value of  $w^3$ 

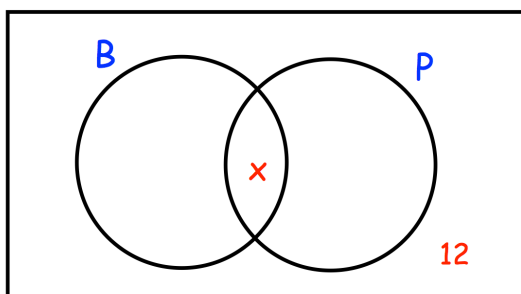
Given

$$f(x) = 4x + 1$$

$$g(x) = 5 - 2x$$

Find  $gf(5)$ 

ξ



There are 100 students in a college  
 $B$  = number of students studying biology  
 $P$  = number of students studying physics

A half of the students who study biology also study physics.  
 The number of students who study physics is 50% more than those studying biology.

Find  $x$ .

Simplify fully

$$\frac{x^3 - x}{x + 2} \div \frac{x^2 - x}{x^2 - 5x - 14}$$