

1st August



Write down the exact value of  $\sin 30^\circ$

$$\frac{1}{2}$$

There are  $x$  apples in a crate.  
2 of the apples are bad.

Jesse chooses two apples from the crate, without replacement.  
The probability that he selects two bad apples is  $\frac{1}{28}$

$$P(BB) = \frac{2}{x} \times \frac{1}{x-1}$$

$$\frac{2}{x^2-x} = \frac{1}{28}$$

Prove  $x^2 - x - 56 = 0$

$$56 = x^2 - x$$

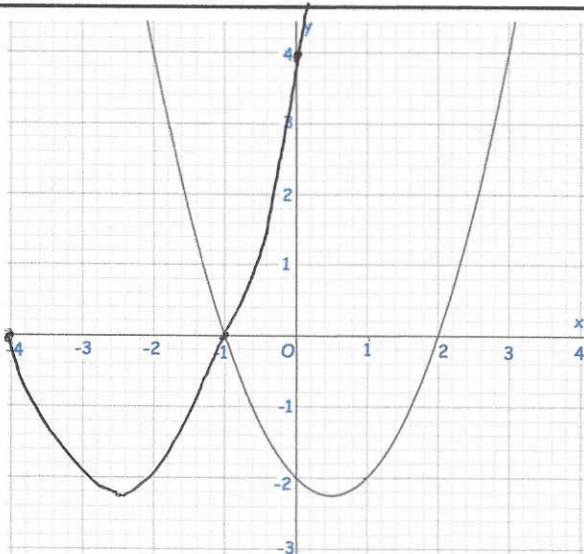
$$x^2 - x - 56 = 0$$

$$(x-8)(x+7) = 0$$

$$x = 8 \quad x = -7$$

Find  $x$ , the number of apples in the crate

$$x = 8$$



Shown is  $y = f(x)$

Find  $ff(1)$

$$f(1) = -2$$

$$f(-2) = 4$$

$$ff(1) = 4$$

Sketch  $y = f(x+3)$

3 left