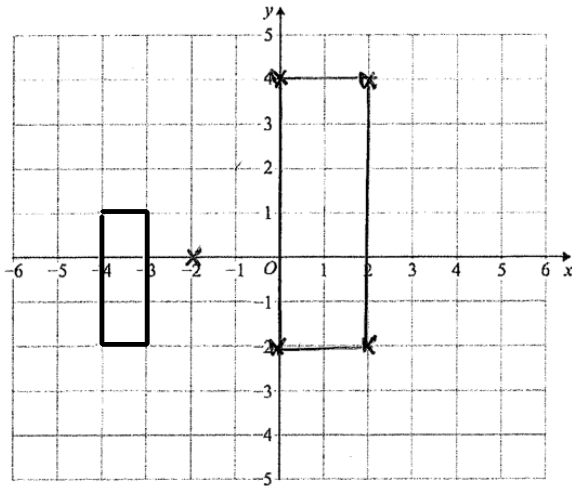
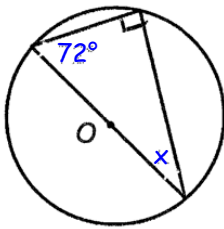


6th January



Enlarge the rectangle by scale factor -2, centre of enlargement (-2, 0)



Find x

$x = 18$

Offer 1
40% extra free

Offer 2
40% off the price

Offer 3
Buy one get one half price

There are 3 different offers on jars of coffee.
The jar usually contains 500g of coffee.

Which offer is best value for money?

- ① 700g → $\frac{500}{700} = 71\%$ price
 - ② 60% of price
 - ③ 2 for 150% of price
- $\frac{2}{3} \times 2 = 75\%$ for 1
2 is best offer.

$(x + 3)(x + a)(x + 7) = x^3 + 15x^2 + 71x + 105$

Find a $(x+3)(x+7) = x^2 + 10x + 21$

$21 \times 5 = 105$

$a = 5$