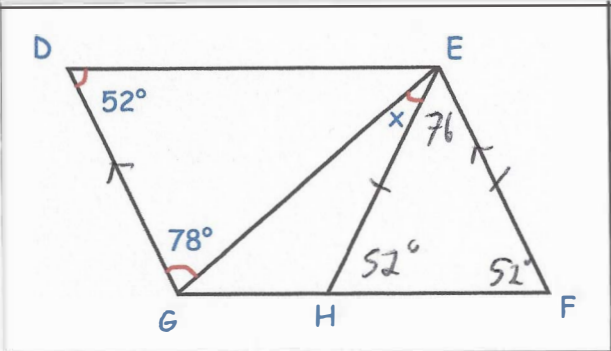


25th August



Corbettmaths



DEFG is a parallelogram
EH = EF

Find x

$$x = 2^\circ$$

Factorise

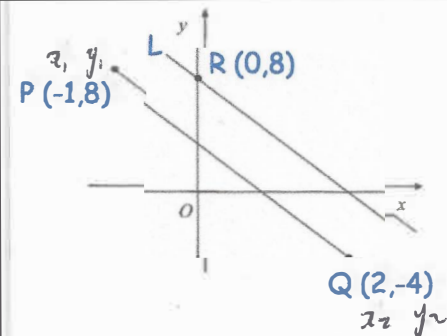
$$x^2 - y^2$$

$$(x - y)(x + y)$$

Factorise

$$2x^2 + 17x + 21$$

$$(2x + 3)(x + 7)$$



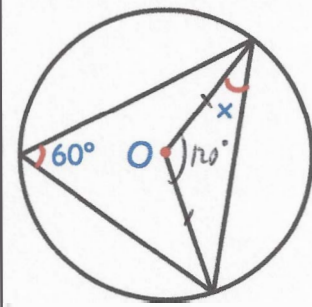
Line L and PQ are parallel.

Find the equation of L.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - 8}{2 - (-1)} = \frac{-12}{3}$$

$$m = -4$$

$$y = -4x + 8$$



Find x

$$180 - 120 = 60$$

$$60 \div 2 = 30^\circ$$

A radioactive substance decays with time. The mass of the substance reduces by 8% each year.

How many years will it take for 400kg of the substance to decay to a mass of less than 20kg?

36 years

$$400 \times 0.92^x$$

36 years 19.88kg