



Solve the simultaneous equations

$$2x + y = 7$$

$$3x - y = 8$$

$$\hline 5x = 15$$

$$x = 3$$

add

$$x + y = 7$$

$$y = 1$$

$$x = 3, y = 1$$

Factorise $x^2 - x - 12$

$$(x - 4)(x + 3)$$

Write 5.2×10^{-4} as an ordinary number.

$$0.00052$$

Find the n th term of

90 80 70 60

$$-10n + 100$$

or

$$100 - 10n$$

Find the 100th term.

$$100 - 10 \times 100$$

$$100 - 1000$$

$$= -900$$

It would take 48 days for 5 builders to build a house.

$$48 \times 5 = 240$$

How much longer would it take if only 4 builders built the house?

$$240 \div 4 = 60$$

$$60 - 48 = 12 \text{ days longer}$$

State one assumption you made in working out your answer

All builders work at the same rate.