

21st September

Corbettmaths

Factorise

$$x^2 + 2x - 8$$

Factorise

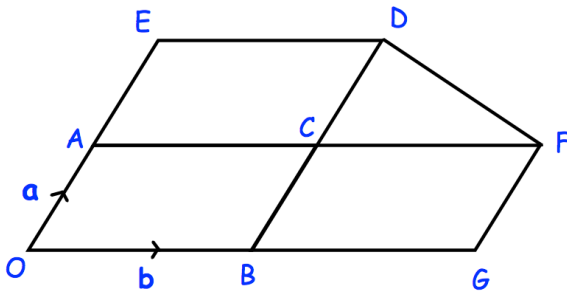
$$x^2 - 2x - 3$$

$$2x + 25 \quad 3x + 15$$

Find the size of x

James weighed 100kg.
His target was to weigh 80kg or less.
His weight decreased by 3% each month.

Has he achieved his target after six months?
Show your workings.



B is the midpoint of OG.
A is the midpoint of OE.

$$\overrightarrow{OA} = \mathbf{a} \quad \text{and} \quad \overrightarrow{OB} = \mathbf{b}$$

Express in terms of \mathbf{a} and \mathbf{b} , the vector

$$\overrightarrow{OC}$$

Express in terms of \mathbf{a} and \mathbf{b} , the vector

$$\overrightarrow{OG}$$