18th February **Higher Plus 5-a-day**

Corbettmaths

Given

$$f(x) = \frac{2+x}{3}$$

find

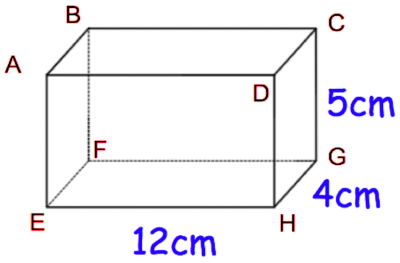
$f(11)$

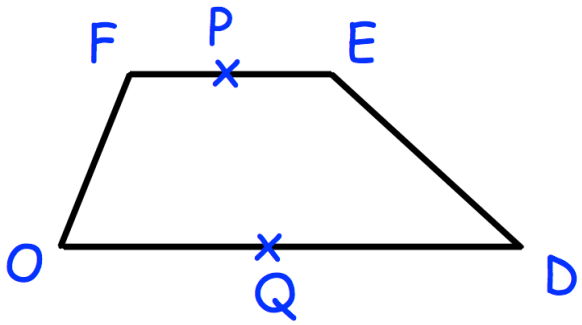
Given

$f(a) = 0$

find a

Calculate angle HFG





ODEF is a trapezium
P is the midpoint of FE
Q is the midpoint of OD

$\overrightarrow{FE} = 2a \quad \overrightarrow{OF} = b \quad \overrightarrow{OD} = 8a$

Find in terms of **a** and **b**

$\overrightarrow{OP}$

$\overrightarrow{PQ}$

R is the midpoint of PQ

$\overrightarrow{OR}$

The lines OR and FE are extended and meet at the point Y.

$\overrightarrow{QY}$