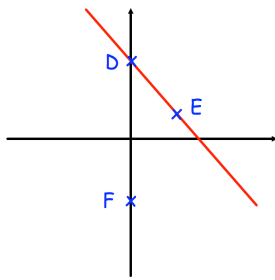


21st February

Corbettmaths

The volumes of two mathematically similar solids are in the ratio 8 : 125
The surface area of the smaller solid is 24 cm²

Work out the surface area of the larger solid.



A straight line passes through D(0,10) and E (6, 2)

Find the equation of the line perpendicular to DE and passing through F(0, -8)

Find the shortest distance between the line passing through DE and the point F

$$a = \frac{c}{w}$$

$c = 820$ correct to 2 significant figures
 $w = 40$ correct to 2 significant figures

By considering bounds, work out the value of a to a suitable degree of accuracy.

Find the minimum point of the graph
 $y = x^2 - 11x + 1$