

19th December

Corbettmaths

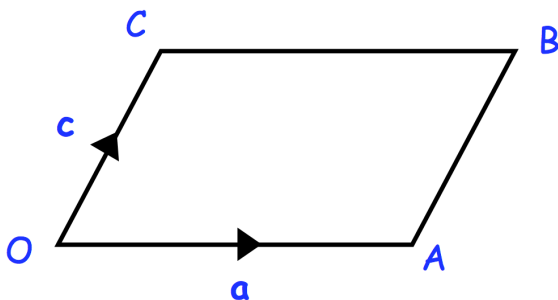
Rationalise the denominator of

$$\frac{3 + \sqrt{2}}{\sqrt{3}}$$

The population of a country is
 6.4×10^6
 to the nearest hundred thousand

The area of country is $8.4 \times 10^4 \text{ km}^2$
 to the nearest 100 km^2

Calculate the lower bound of the
 population density.



Given that

$$\vec{OD} = 5a - \frac{1}{2}c$$

Find the value of m

OABC is a parallelogram

$$\vec{OA} = a \quad \vec{OC} = c$$

Y is the midpoint of AC
 OAD is a straight line where
 $OA:AD = m : 1$

Solve the simultaneous equations

$$y = x^2 + x + 2$$

and

$$x + 3y = 38$$