

7th May

Corbettmaths

The final velocity of a traveling object is given by the formula, $v = u + at$

where v is the final velocity
 u is the initial velocity
 a is the acceleration
and t is the time.

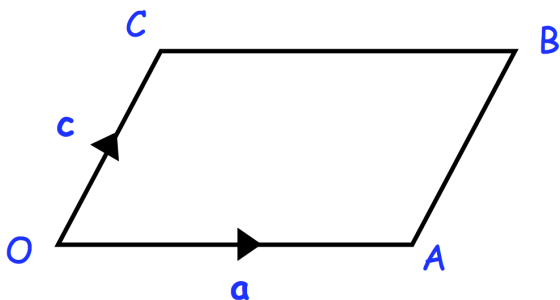
Given $u = 5.4\text{m/s}$ correct to 1 decimal place

$a = 4.9\text{m/s}^2$ correct to 1 decimal place

$v = 25.32$ correct to 2 decimal places

Calculate the upper bound for t .

Calculate the lower bound for t .



Given that

$$\vec{YD} = 6a - \frac{1}{2}c$$

Find the value of k

OABC is a parallelogram

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

Y is the midpoint of AC

OAD is a straight line where

$$OA:AD = m : 1$$

Prove that $3n(3n + 4) + (n - 6)^2$ is positive for all values of x