
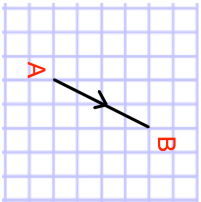

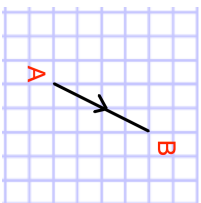


| 5th August | | Corbettmaths  |
|--|---|---|
| <p>a is directly proportional to \sqrt{c}. w is inversely proportional to a^3.</p> <p>When $c = 49$, $a = 35$ When $a = 2$, $w = 16$.</p> <p>Find the value of w when $c = 4$.</p> | <p>$\vec{AB} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$</p> <p>Write down a vector that is perpendicular to AB and twice the length</p> |  |
| <p>The population of birds living on an island is decreasing exponentially.</p> <p>Martin has begun to monitor the population each year.</p> <p>Year 6 - Population 8000 Year 8 - Population 4000</p> | <p>What was the population in Year 2?</p> | |
| <p>Two ships, A and B, leave a port at midday.</p> <p>A travels on a bearing of 095° at a speed of 18km/h. B travels on a bearing of 113° at a speed of y km/h.</p> <p>At 14:00 the distance between A and B is 30km. Boat B was travelling at a slower speed than boat A Work out y, the speed of boat B.</p> | | |

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