
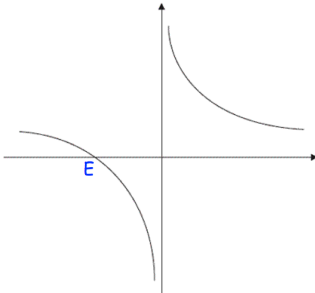


5th Dec	 Corbettm@ths
<p>A triangle has an area of $\sqrt{48} \text{ cm}^2$</p> <p>The base of the triangle is $(1 + \sqrt{3})\text{cm}$</p> <p>Calculate the perpendicular height of the triangle.</p>	
<p>A shop sold 120 watches in 2010. Each year the shop sold 40 more watches than the year before, so that the shop sold 160 watches in 2011, 200 watches in 2012 and so on forming an arithmetic sequence.</p>	<p>Calculate the total number of watches the shop expects to sell from 2010 to 2050 inclusive.</p>
<p>The curve</p> $y = \frac{1}{x} + 4$ <p>meets the x-axis at the point E. Find the coordinates of E</p>	
<p>Differentiate with respect to x</p> $\frac{x^7 + 2\sqrt{x}}{3x^2}$	
<p>Find the value of k for which the straight line $y = 6x + k$ is a tangent to the curve</p> $y = x^2 - 6x + 2$	