
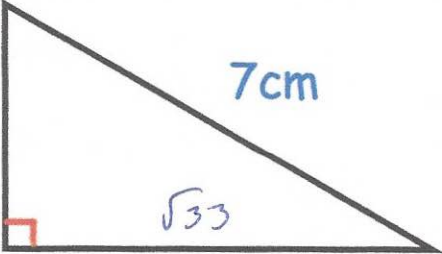
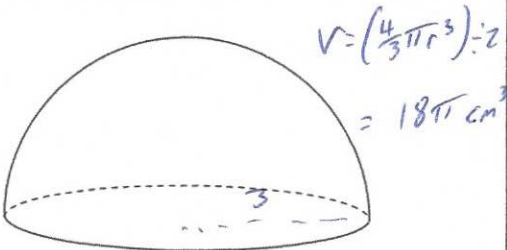


6th February		 Corbettmaths	
Write down the exact value of: tan 0°	0	Write down the exact value of: tan 60°	$\sqrt{3}$
 <p>$a^2 + b^2 = c^2$ $4^2 + y^2 = 7^2$ $y = \sqrt{33}$</p>	Find the area of the triangle. Give your answer in surd form and as simply as possible	$\frac{1}{2} \times \sqrt{33} \times 4$ $2\sqrt{33}$	
Given $f(x) = 2x + 3$ $g(x) = 4x^2$	Find fg(x)	$fg(x) = 2(4x^2) + 3$ $= 8x^2 + 3$	
<div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 2px;"> POLYGON </div> <p>A tile is selected at random, it is not replaced and then another tile is selected.</p>	Work out the probability that both cards are O.	$P(OO) = \frac{2}{7} \times \frac{1}{6} = \frac{2}{42}$ $= \frac{1}{21}$	
 <p>$V = \left(\frac{4}{3}\pi r^3\right) \div 2$ $= 18\pi \text{ cm}^3$</p>	The solid hemisphere shown has a radius of 3cm. The hemisphere is made from a material with density 6.13g/cm ³ . Calculate the mass of the hemisphere.	$d^m \quad m = d \times v$ $= 6.13 \times 18\pi$ $= 346.643\dots g$	