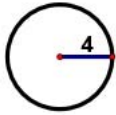


# What do you need to know for Trig?!

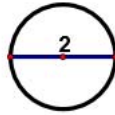
Wednesday, December 7, 2016 9:25 AM

The "What do I need to know to start Trigonometry?" Worksheet

$2\pi r$   
Circumference and Arc Length



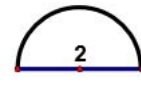
$C = 8\pi$



$C = 2\pi$

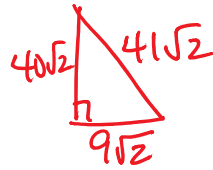
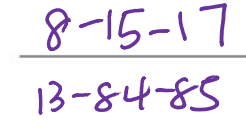
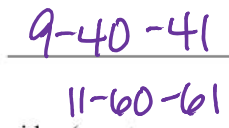
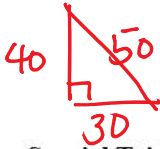


arc length =  $\frac{\pi}{2}$

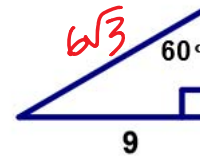
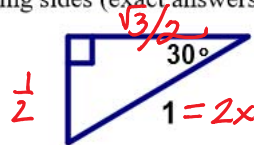
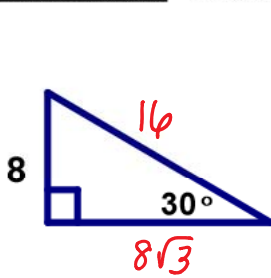


arc length =  $\pi$

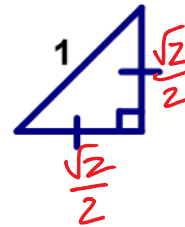
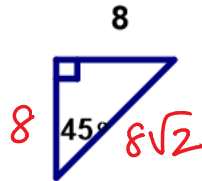
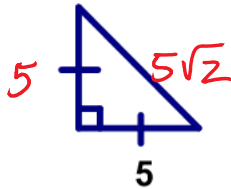
Pythagorean Triples - 3-4-5      5-12-13      7-24-25



Special Triangles - Find all missing sides (exact answers only!).



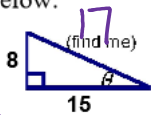
$3\sqrt{3} \times \sqrt{3} = 9$   
 $x = \frac{9}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{9\sqrt{3}}{3} = 3\sqrt{3}$



$x\sqrt{2} = 1$   
 $x = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

Right Triangle Trigonometry SOH CAH TOA

Find each trig. ratio for the triangle below.



$\theta = \text{theta}$

$\sin \theta = \frac{8}{17}$        $\cos \theta = \frac{15}{17}$        $\tan \theta = \frac{8}{15}$

$\csc \theta = \frac{17}{8}$        $\sec \theta = \frac{17}{15}$        $\cot \theta = \frac{15}{8}$

Cosecant      secant      cotangent