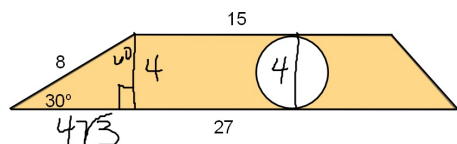Algebra 2   Bellwork   Friday, November 15, 2013

1. Find the area of the shaded region.
Area of a circle:  $A = \pi r^2$     Area of a trapezoid:  $A = \frac{1}{2}(b_1 + b_2)h$
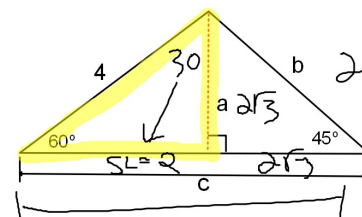


$A = \frac{1}{2}(27+15)4 = 84$

$A = \pi 2^2 = 4\pi$

$\boxed{84 - 4\pi}$

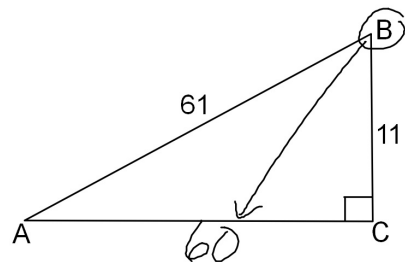2. Find the value of each variable. Leave answer in simplified radical form.



$2\sqrt{3} \cdot \sqrt{2} = 2\sqrt{3 \cdot 2} = 2\sqrt{6}$

$a = 2\sqrt{3}$
$b = 2\sqrt{6}$
$c = 2 + 2\sqrt{3}$

3. Find each ratio as a fraction.



Cos A = $\frac{60}{61}$

Sin B = $\frac{60}{61}$

Tan A = $\frac{11}{60}$

SOH CAH TOA

TAN B = $\frac{60}{11}$