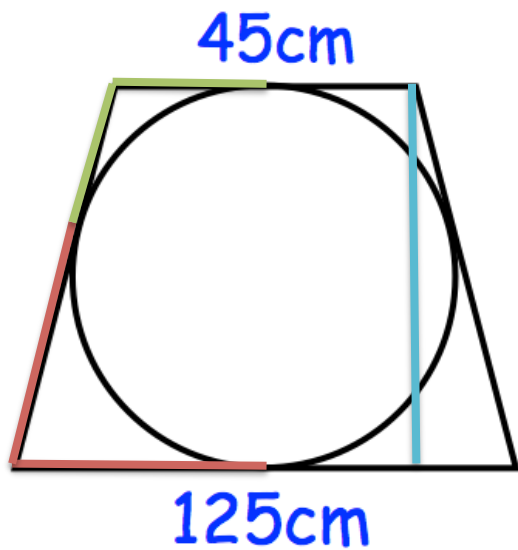


August 16<sup>th</sup>



Using the fact that the sides are all tangents to the circle, the equal unknown sides must be

$$\frac{45}{2} + \frac{125}{2} = 85cm$$

Now considering the right angled triangle on the right, the blue height is the diameter, and the short side is  $(125 - 45) \div 2 = 40cm$

Using Pythagoras

$$d^2 = 85^2 - 40^2$$

$$d = 75 cm$$

Therefore area =

$$\pi \times 37.5^2 =$$

$$\frac{5625\pi}{4} \approx 4418cm^2$$