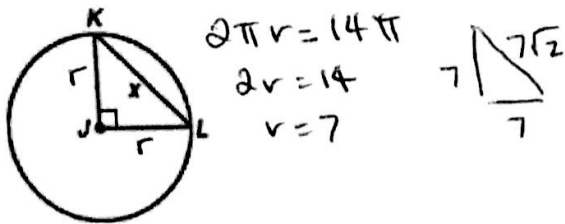


LESSON
5-8

Challenge $C = \pi d$ or $2\pi r$ Area = πr^2
Applying Properties of Special Right Triangles

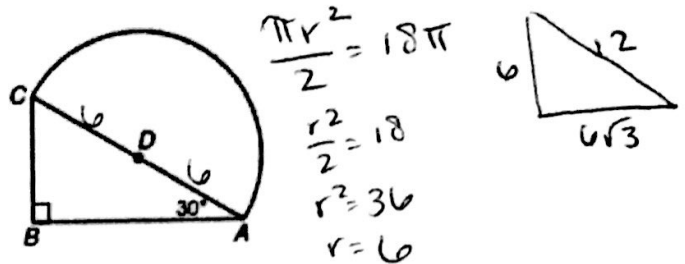
Use the properties of special right triangles to solve each problem.
Give your answers in simplest radical form.

1. The circumference of circle J is 14π .
What is the value of x ?



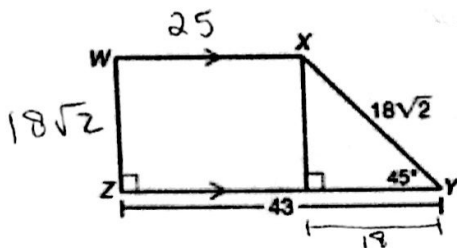
$7\sqrt{2}$

2. The area of semicircle D is 18π . What is the perimeter of $\triangle ABC$?



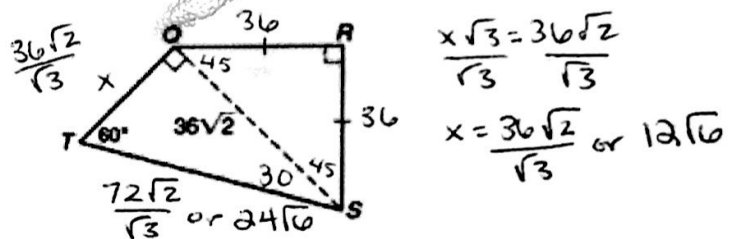
Perimeter = $18 + 6\sqrt{3}$

3. Find the perimeter of quadrilateral $WXYZ$.



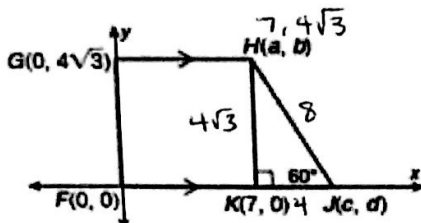
$68 + 36\sqrt{2}$

4. Find the perimeter of quadrilateral $QRST$.



$72 + \frac{108\sqrt{2}}{\sqrt{3}}$ OR $72 + 36\sqrt{6}$

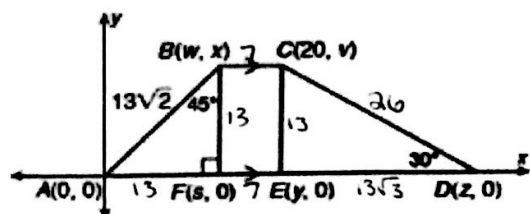
5. Find a , b , c , and d .



$a=7$ $b=4\sqrt{3}$

$c=11$ $d=0$

6. Find w , x , y , and z .



$S=13$, $w=13$, $x=13$, $v=13$

$y=20$ $z=20+13\sqrt{3}$