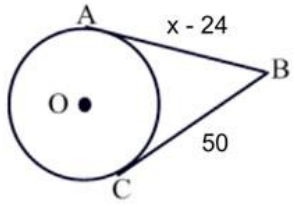
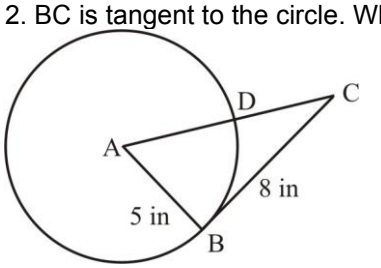
Geometry Unit 4B Quiz Review Name: _____ Block: ___

1. AB and CB are tangents. Find x.



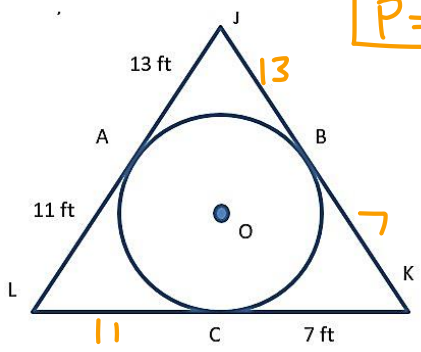
$x-24=50$
$+24 \quad +24$
$x=74$

2. BC is tangent to the circle. What is the length of AC?



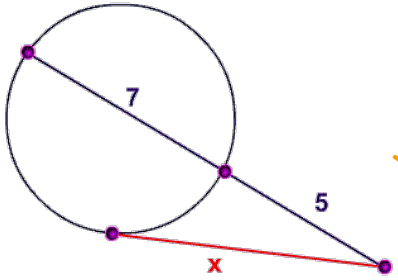
$a^2+b^2=c^2$
$5^2+8^2=c^2$
$25+64=c^2$
$\sqrt{89}=\sqrt{c^2}$
9.4

3. Lines JK, KL, and LJ are tangent to the circle. Find the perimeter of triangle JKL.



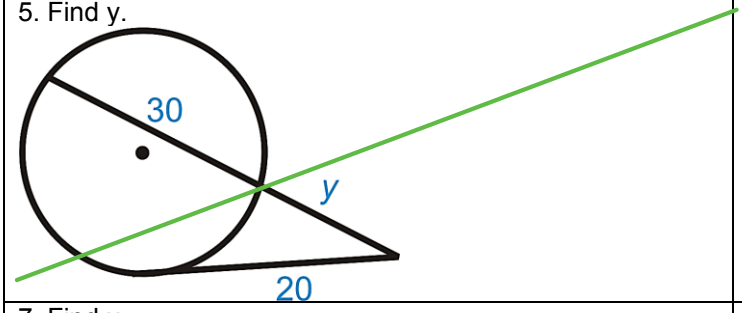
$P=62$

4. Find x.

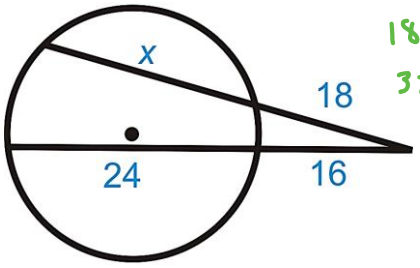


$x^2=5(5+7)$
$\sqrt{x^2}=\sqrt{60}$
$x=7.7$

5. Find y.

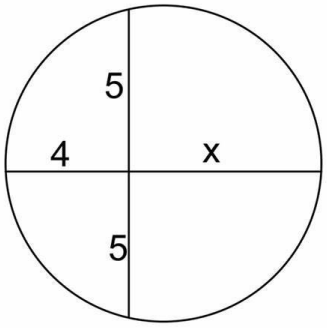


6. Find x.



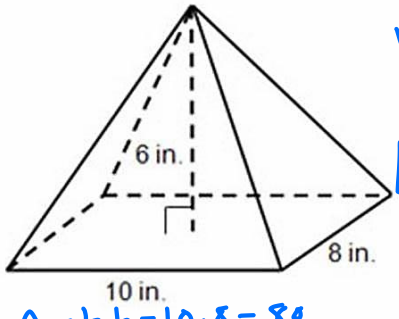
$18(18+x)=16(16+24)$
$324+18x=640$
$\frac{18x}{18}=\frac{316}{18}$
$x=17.6$

7. Find x.



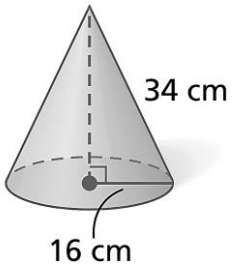
$4(x)=5(5)$
$4x=25$
$x=6.25$

8. Find the volume of the rectangular based pyramid.



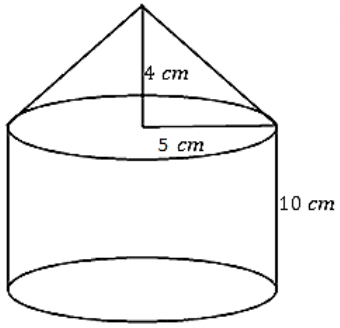
$V=\frac{1}{3}B \cdot h$
$=\frac{1}{3}(80)(6)$
$V=160$
$A=b \cdot h=10 \cdot 8=80$

9. Find the volume of the cone.



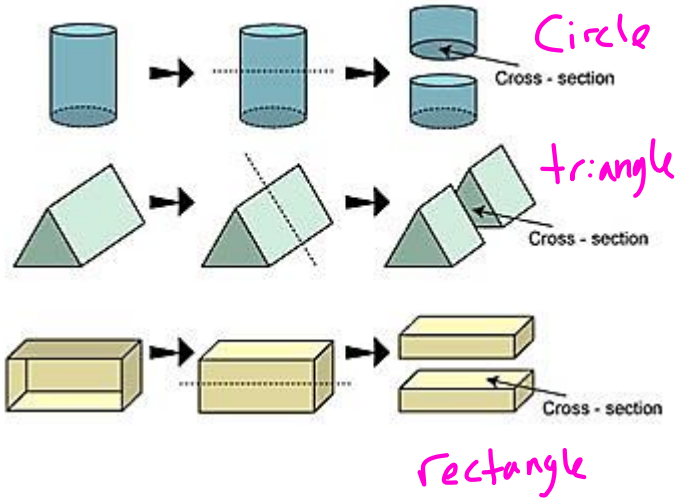
$V=\frac{1}{3}\pi r^2 h$
$=\frac{1}{3}\pi(16)^2(34)$
$V=9114.8$

10. Find the volume of the figure.



$V=\frac{1}{3}\pi(5)^2(4)$
$=104.7$
$V=\pi(5)^2(10)$
$=785.4$
890.1

11. Name the cross sections.

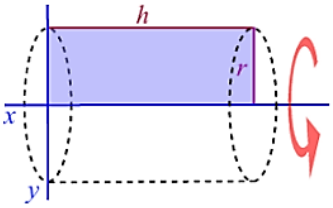


Circle

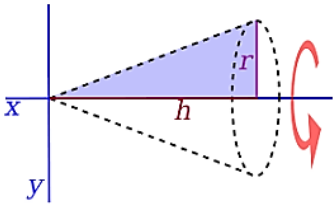
triangle

rectangle

12. What 3D object is produced by the rotating cross section?



cylinder



cone