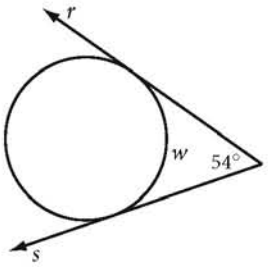
Name_____Date_____

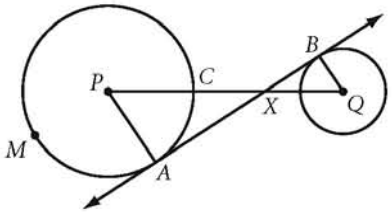
# Final Review – Chapter 7

**Part A**

1) Rays $r$ and $s$ are tangents. $w =$ _____




2) $\overleftrightarrow{AB}$ is tangent to both circles and $m\widehat{AMC} = 295°$. $m\angle BQX =$ _____

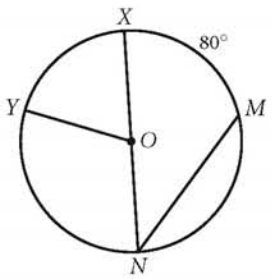



3) $m\widehat{XM} = 80°$

$m\angle XNM =$ _____

$m\widehat{XN} =$ _____

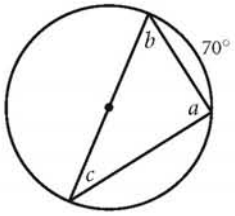
$m\widehat{MN} =$ _____




4) $a =$ _____

$b =$ _____

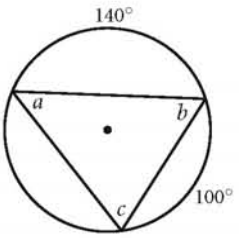
$c =$ _____




5) $a =$ _____

$b =$ _____

$c =$ _____



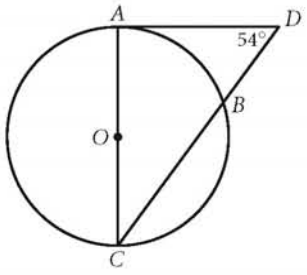

6) $\overline{AD}$ is a tangent. $\overline{AC}$ is a diameter.

$m\angle A =$ _____

$m\widehat{AB} =$ _____

$m\angle C =$ _____

$m\widehat{CB} =$ _____




**Part B**

Leave your answers in terms of π.

1) If $r = 10.5\,cm$, find $C$.

2) If $C = 25\pi\,cm$, find $r$.

3) If $C = 9.6\pi\,cm$, find $d$.

4) If $d = 12\,cm$, find $C$.

5) What is the circumference of a circle whose radius is 30 cm?

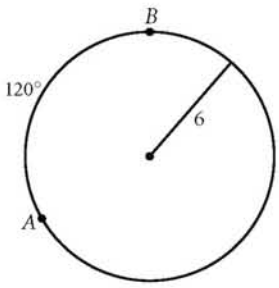
6) What is the diameter of a circle whose circumference is 24π cm?

7) A dinner plate fits snuggly in a square box with perimeter 48 inches.What is the circumference of the plate?

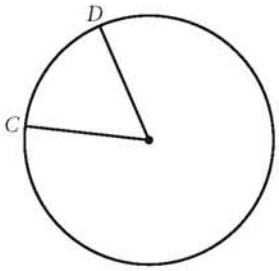
**Part C**

Leave your answers in terms of π.

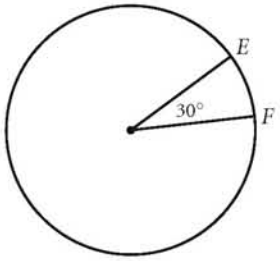
**1.** Length of $\overset{\frown}{AB}$ = _____



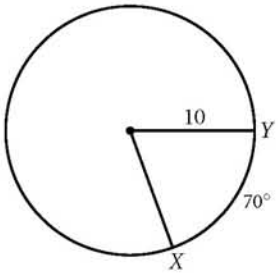

**2.** The circumference is $24\pi$ and $m\overset{\frown}{CD} = 60°$. Length of $\overset{\frown}{CD}$ = _____



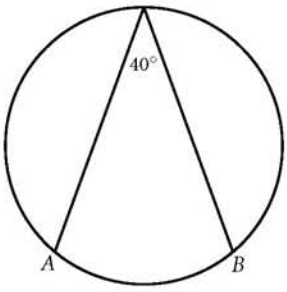

**3.** The length of $\overset{\frown}{EF}$ is $5\pi$. Radius = _____



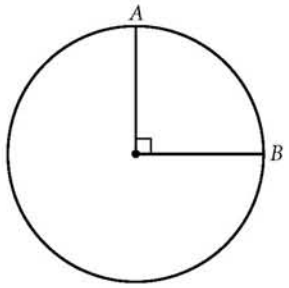

**4.** Length of $\overset{\frown}{XY}$ = _____



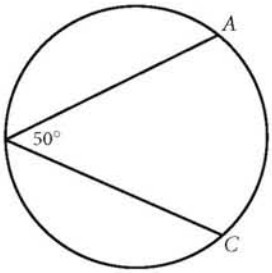

**5.** The radius is 20. Length of $\overset{\frown}{AB}$ = _____



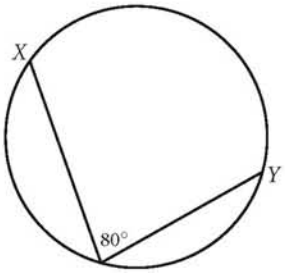

**6.** The circumference is $25\pi$. Length of $\overset{\frown}{AB}$ = _____



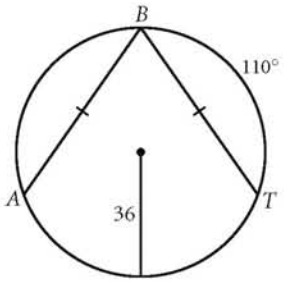

**7.** The diameter is 40. Length of $\overset{\frown}{AC}$ = _____




**8.** The length of $\overset{\frown}{XY}$ is $14\pi$. Diameter = _____

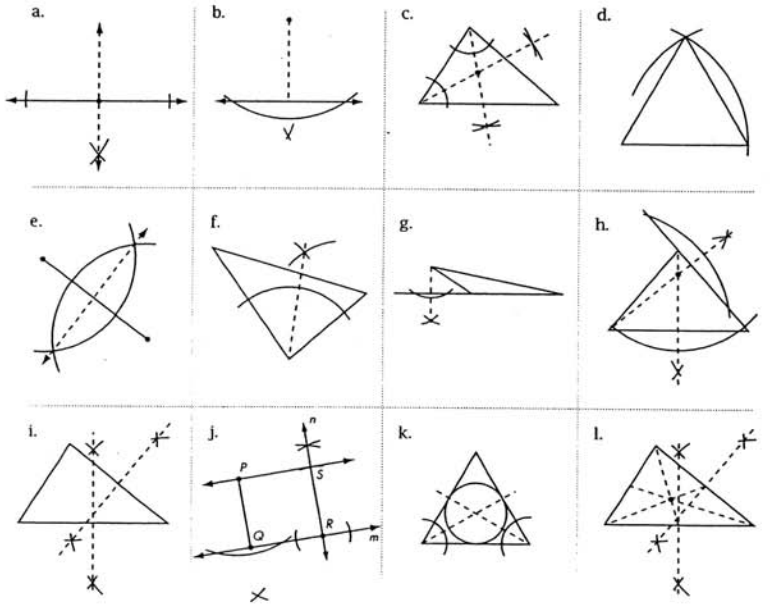



**9.** Length of $\overset{\frown}{AB}$ = _____



**Part D**

Match each geometric construction with its figure.

| | | |
|---|---|---|
| 1. Construction of a perpendicular through a point on a line | |   |
| 2. Construction of a line parallel to a given line through a given point not on the line | | |
| 3. Construction of a perpendicular bisector | | |
| 4. Construction of an angle bisector | | |
| 5. Construction of a perpendicular from a point to a line. | | |
| 6. Construction of an equilateral triangle | | |
| 7. Construction of an altitude in a triangle | | |
| 8. Construction of a circumcenter | | |
| 9. Construction of an incenter | | |
| 10. Construction of a 45° angle | | |