TT .	. <i>,</i> n			~1° 1	
Uni	t o k	Lev16	- ws	Circle	S

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- 1. A tangent to a circle is Owner of to the radius drawn to the point of tangency.
- 2. Tangent segments to a circle from a point outside the circle are
- 3. If two chords in a circle are congruent, then they determine two arcs that are Congruent,
- 4. If two chords in a circle are congruent, then their central angles are
- 5. The perpendicular from the center of a circle to a chord is the O(100 s)
- 6. Two congruent chords in a circle are equidible from the center of the circle.
- 7. The <u>Devocate Control</u> bisector of a chord passes through the center of the circle.
- 8. The measure of an angle inscribed in a circle is <u>One Nalk</u> the measure of the intercepted arc.
- 9. Inscribed angles that intercept the same arc are Concretely:
- 10. Angles inscribed in a semicircle are
- 11. The opposite angles of a cyclic quadrilateral are
- 12. Viville lines intercept congruent arcs on a circle.
- 13. The length of an arc equals
- 14. If two secants of a circle are parallel, then the determined arcs are

## Circumference

15. The circumference of a circle is  $88\pi$  ft. What is the radius? Show all work.

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16. A satellite in a nearly circular orbit is 3200 km above Earth's surface. The radius of Earth is about 6400 km. If the satellite completes its orbit in 14 hours, calculate the speed of the satellite in km/hr. Show all work.

orbit Radius - 9600 km

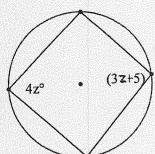
C= ZW (9600) C=19,2001 Km one orbit

7. 19,2000 KM/14 4308 Km/hr

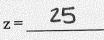
arbit = 14 MOUVS is orbit = I hour

## 17. Solve each problem. Show all work.

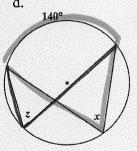




42+32+5=180 72=175

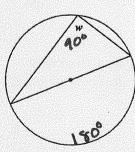




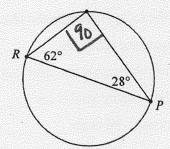


$$x = \frac{70^{\circ}}{z = \frac{70^{\circ}}{}}$$

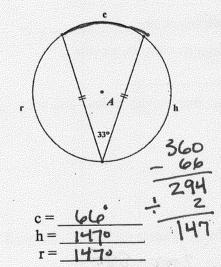
g.



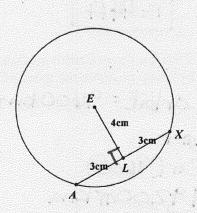
## b. is $\overline{RP}$ a diameter? Why?



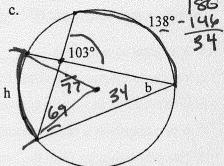
e.



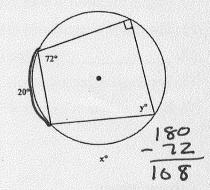
h.



$$m\angle ELA = 90^{\circ}$$



f.



i.

