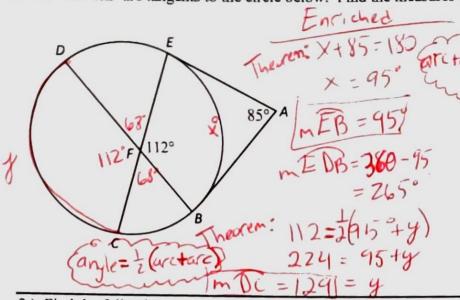
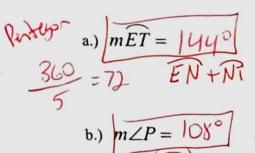
1.)  $\overline{AB}$  and  $\overline{AE}$  are tangents to the circle below. Find the measures of arcs  $\widehat{EB}$  and  $\widehat{DC}$ .

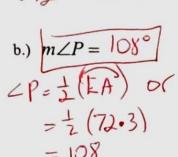


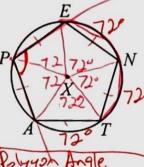
Standard Let Floe the center

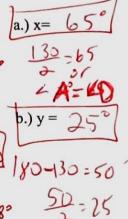
2.) Find the following measurements if regular pentagon PENTA is inscribed in  $\odot X$ . 3.) A, B, C and D are points on the circumference of a circle. AC is a diameter of the circle and 65.2=130= = BC  $\angle$  BAC = 65°

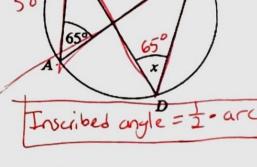


Y.



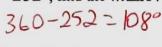


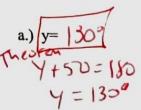


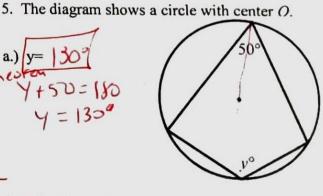


4.) In the diagram below,  $\overline{EA}$  and  $\overline{SA}$  are

tangent to  $\bigcirc P$ . If  $mEYS = 252^{\circ}$ , find the  $m\angle A$ . and egual







Enriched

Theorem 108+4A=180 m LA = 72°

Standor central Angle

b. What do you know about the remaining 2 angles?

- 360 +08 40 90 = 72°
- They are sphementary add up to 15"

bisected

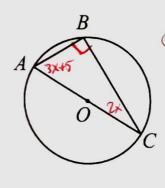
Cight angle

6.) The circle below has a 80 cm chord that is 26 cm

away from the center. Find the radius of the circle. You must show your work for full credit.

LB:45

7.)  $\overline{AC}$  is a diameter of circle O,  $m\angle A = (3x+5)^{\circ}$ , and  $m\angle C = (2x)^{\circ}$ . Find the  $m\angle C$ .



3x+5+2x=90  $m \leq C = 2x = 34^{\frac{1}{2}}$ 

Inscribed Triangle with diameter. is a Right A

R 45°

3.) Given:  $\bigcirc Y$  (Y is the center of the circle) NG is a tangent RN is a diameter

Find each of the following (try finding them in order, a-h):

- a.)  $m \angle RNG$

targets are I to radius

- b.)  $\widehat{mNS}$

75° Central angles = acc

- c.)  $m \angle RYP$

- d.)  $m \angle PYS$
- 180-45-75=60 Diagety makes semicircle 1862, shalf whole of 3600 360-75-60-45-60=120' or 180-60=120"

- e.)  $m\widehat{IN}$
- 60+45

- f.)  $m \angle IYP$
- 1050
- g.)  $\widehat{mRIS}$
- 266
- h.)  $\widehat{mRN}$
- 1800
- i) nCIKR= 30°
- Are Addition postulate 60+1200+750=255
  - Inscribed Angles 2 /2 arc

2 (ins ang) =arc

