1. Circle P with Tangent $\overline{RS}$.
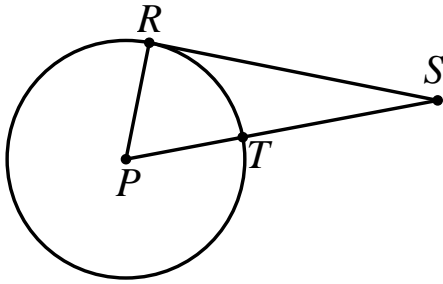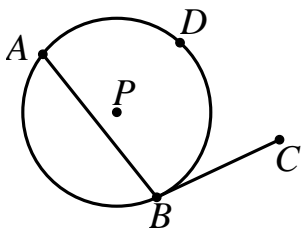
a. If RS = 10 and RP = 5, find PS.

b. If PT = 6 and TS = 8, find RS.
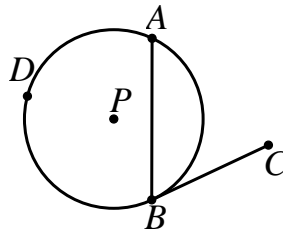
2. Circle P with Tangent $\overline{BC}$.

a. $m\widehat{ADB} = 240^0$
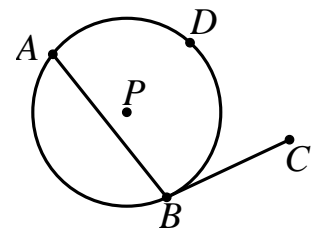
Find $m\angle ABC$.
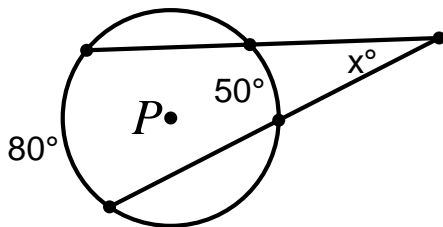
b. $m\angle ABC = 75^0$

Find $m\widehat{AB}$

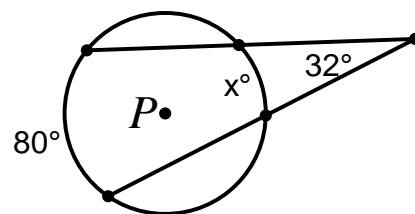c. $m\widehat{ADB} : m\widehat{AB} = 3 : 2$

Find $m\angle ABC$.

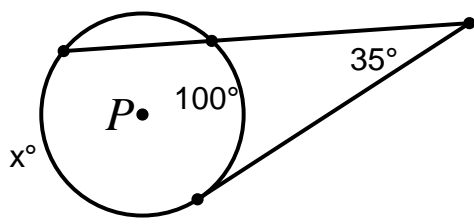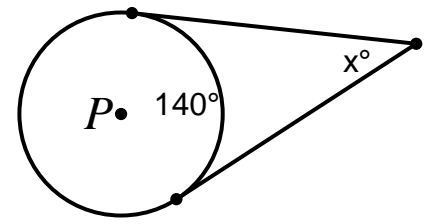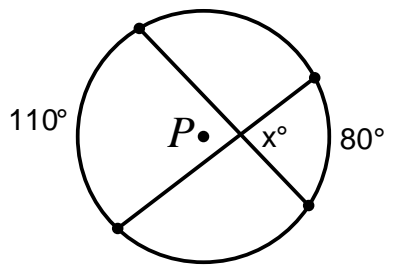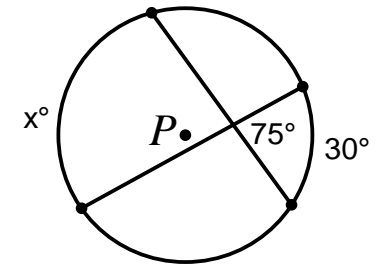**3.** Circle P. Solve for x. *(Assume lines that look tangent are tangent)*

a.

50°

x°

80°

b.

32°

x°

80°

c.

35°

P• 100°

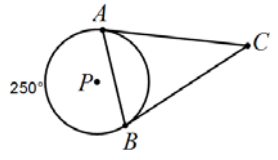x°

d.

x°

P• 140°

e.

110°

P• x°

80°

f.

x°

P• 75°

30°

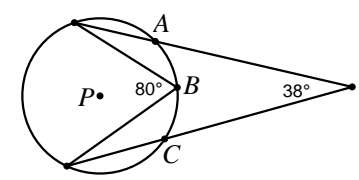**4.** Circle P. Find the value of x. *(Assume lines that look tangent are tangent)*

a. $x = m\angle ABC$

A

C

250° P•

B

b.

90°   30°   x°

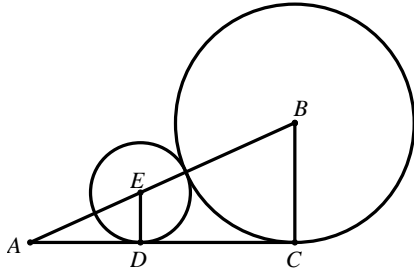c. $x = \overset{\frown}{ABC}$

A

P• 80° B   38°
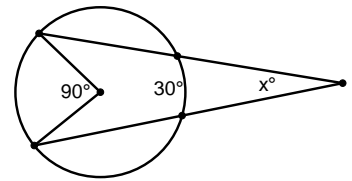
C

5.

a. Convert $\dfrac{11\pi}{12}$ radians into degrees.

b. Convert 150° into radians (in terms of π)

6. Complete the Proofs:

a. Given: $\odot E$ *and* $\odot B$ are tangent to $\overline{ADC}$
   at points D and C respectively.

   Prove: $\triangle ADE \sim \triangle ACB$

b. Given: Circle O
   Tangents $\overline{PD}\,\&\,\overline{PC}$

   Prove: $\angle CPO \cong \angle DPO$