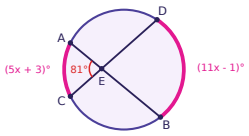
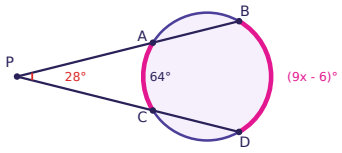
Angles Formed by Chords, Secants & Tangents · 1

Chords AB and CD intersect at E. arc AC = (5x + 3)°, arc BD = (11x - 1)° and m∠AEC = 81°. Find x.



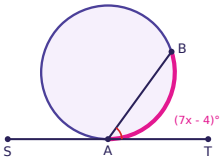
Angles Formed by Chords, Secants & Tangents · 2

Secants PAB and PCD meet at point P outside the circle. arc BD = (9x - 6)°, arc AC = 64° and m∠P = 28°. Find x.



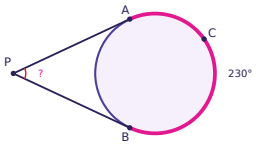
Angles Formed by Chords, Secants & Tangents · 3

Line ST is tangent to the circle at A. Arc AB (the colored arc) = (7x - 4)° and m∠TAB = (4x - 10)°. Find x.



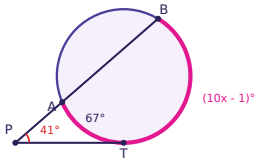
Angles Formed by Chords, Secants & Tangents · 4

PA and PB are tangent to the circle. Major arc ACB = 230°. Find m∠P.



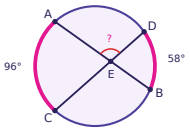
Angles Formed by Chords, Secants & Tangents · 5

PT is tangent to the circle at T, and PAB is a secant. arc TB = (10x - 1)°, arc TA = 67° and m∠P = 41°. Find x.



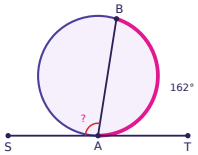
Angles Formed by Chords, Secants & Tangents · 6

Chords AB and CD intersect at E. arc AC = 96° and arc BD = 58°. Find m∠AED.



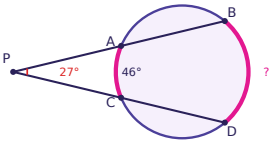
Angles Formed by Chords, Secants & Tangents · 7

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 162°. Find m∠SAB.



Angles Formed by Chords, Secants & Tangents · 8

Secants PAB and PCD meet at point P outside the circle. m∠P = 27° and arc AC = 46°. Find the measure of arc BD.



Angles Formed by Chords, Secants & Tangents · 2

ANSWER

14

Angles Formed by Chords, Secants & Tangents · 1

ANSWER

10

Angles Formed by Chords, Secants & Tangents · 4

ANSWER

50°

Angles Formed by Chords, Secants & Tangents · 3

ANSWER

16

Angles Formed by Chords, Secants & Tangents · 6

ANSWER

103°

Angles Formed by Chords, Secants & Tangents · 5

ANSWER

15

Angles Formed by Chords, Secants & Tangents · 8

ANSWER

100°

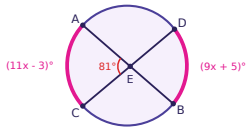
Angles Formed by Chords, Secants & Tangents · 7

ANSWER

99°

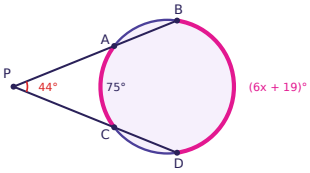
Angles Formed by Chords, Secants & Tangents · 9

Chords AB and CD intersect at E. arc AC = (11x - 3)°, arc BD = (9x + 5)° and m∠AEC = 81°. Find x.



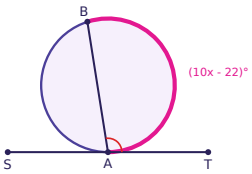
Angles Formed by Chords, Secants & Tangents · 10

Secants PAB and PCD meet at point P outside the circle. arc BD = (6x + 19)°, arc AC = 75° and m∠P = 44°. Find x.



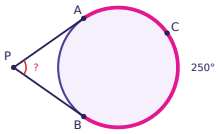
Angles Formed by Chords, Secants & Tangents · 11

Line ST is tangent to the circle at A. Arc AB (the colored arc) = (10x - 22)° and m∠TAB = (4x + 11)°. Find x.



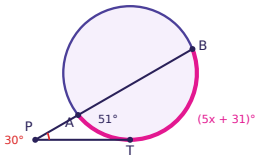
Angles Formed by Chords, Secants & Tangents · 12

PA and PB are tangent to the circle. Major arc ACB = 250°. Find m∠P.



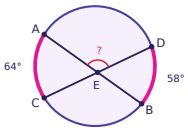
Angles Formed by Chords, Secants & Tangents · 13

PT is tangent to the circle at T, and PAB is a secant. arc TB = (5x + 31)°, arc TA = 51° and m∠P = 30°. Find x.



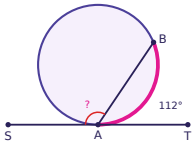
Angles Formed by Chords, Secants & Tangents · 14

Chords AB and CD intersect at E. arc AC = 64° and arc BD = 58°. Find m∠AED.



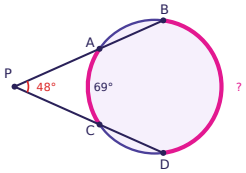
Angles Formed by Chords, Secants & Tangents · 15

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 112°. Find m∠SAB.



Angles Formed by Chords, Secants & Tangents · 16

Secants PAB and PCD meet at point P outside the circle. m∠P = 48° and arc AC = 69°. Find the measure of arc BD.



Angles Formed by Chords, Secants & Tangents · 10

ANSWER

24

Angles Formed by Chords, Secants & Tangents · 9

ANSWER

8

Angles Formed by Chords, Secants & Tangents · 12

ANSWER

70°

Angles Formed by Chords, Secants & Tangents · 11

ANSWER

22

Angles Formed by Chords, Secants & Tangents · 14

ANSWER

119°

Angles Formed by Chords, Secants & Tangents · 13

ANSWER

16

Angles Formed by Chords, Secants & Tangents · 16

ANSWER

165°

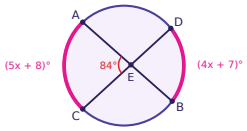
Angles Formed by Chords, Secants & Tangents · 15

ANSWER

124°

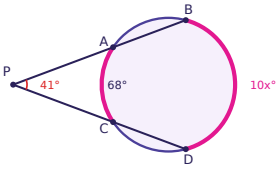
Angles Formed by Chords, Secants & Tangents · 17

Chords AB and CD intersect at E. arc AC = (5x + 8)°, arc BD = (4x + 7)° and m∠AEC = 84°. Find x.



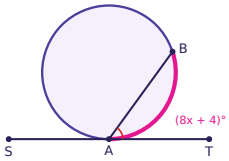
Angles Formed by Chords, Secants & Tangents · 18

Secants PAB and PCD meet at point P outside the circle. arc BD = 10x°, arc AC = 68° and m∠P = 41°. Find x.



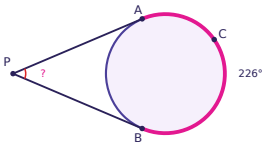
Angles Formed by Chords, Secants & Tangents · 19

Line ST is tangent to the circle at A. Arc AB (the colored arc) = (8x + 4)° and m∠TAB = (3x + 15)°. Find x.



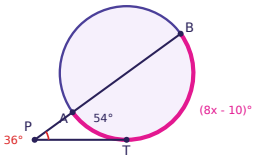
Angles Formed by Chords, Secants & Tangents · 20

PA and PB are tangent to the circle. Major arc ACB = 226°. Find m∠P.



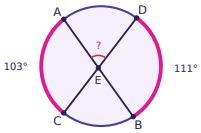
Angles Formed by Chords, Secants & Tangents · 21

PT is tangent to the circle at T, and PAB is a secant. arc TB = (8x - 10)°, arc TA = 54° and m∠P = 36°. Find x.



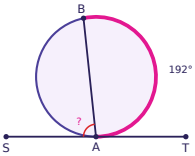
Angles Formed by Chords, Secants & Tangents · 22

Chords AB and CD intersect at E. arc AC = 103° and arc BD = 111°. Find m∠AED.



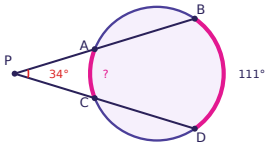
Angles Formed by Chords, Secants & Tangents · 23

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 192°. Find m∠SAB.



Angles Formed by Chords, Secants & Tangents · 24

Secants PAB and PCD meet at point P outside the circle. m∠P = 34° and arc BD = 111°. Find the measure of arc AC.



Angles Formed by Chords, Secants & Tangents · 18

ANSWER

15

Angles Formed by Chords, Secants & Tangents · 17

ANSWER

17

Angles Formed by Chords, Secants & Tangents · 20

ANSWER

46°

Angles Formed by Chords, Secants & Tangents · 19

ANSWER

13

Angles Formed by Chords, Secants & Tangents · 22

ANSWER

73°

Angles Formed by Chords, Secants & Tangents · 21

ANSWER

17

Angles Formed by Chords, Secants & Tangents · 24

ANSWER

43°

Angles Formed by Chords, Secants & Tangents · 23

ANSWER

84°