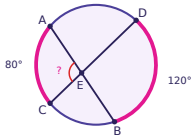
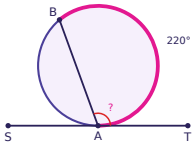
Angles Formed by Chords, Secants & Tangents · 1

Chords AB and CD intersect at E. arc AC = 80° and arc BD = 120°. Find m∠AEC.



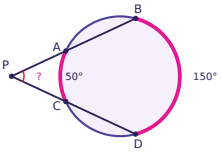
Angles Formed by Chords, Secants & Tangents · 2

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 220°. Find m∠TAB.



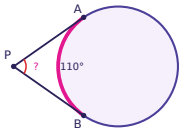
Angles Formed by Chords, Secants & Tangents · 3

Secants PAB and PCD meet at point P outside the circle. arc AC = 50° and arc BD = 150°. Find m∠P.



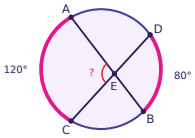
Angles Formed by Chords, Secants & Tangents · 4

PA and PB are tangent to the circle. Minor arc AB = 110°. Find m∠P.



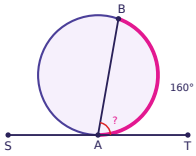
Angles Formed by Chords, Secants & Tangents · 5

Chords AB and CD intersect at E. arc AC = 120° and arc BD = 80°. Find m∠AEC.



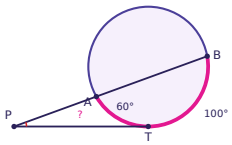
Angles Formed by Chords, Secants & Tangents · 6

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 160°. Find m∠TAB.



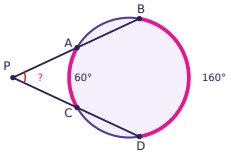
Angles Formed by Chords, Secants & Tangents · 7

PT is tangent to the circle at T, and PAB is a secant. arc TA = 60° and arc TB = 100°. Find m∠P.



Angles Formed by Chords, Secants & Tangents · 8

Secants PAB and PCD meet at point P outside the circle. arc AC = 60° and arc BD = 160°. Find m∠P.



Angles Formed by Chords, Secants & Tangents · 2

ANSWER

110°

Angles Formed by Chords, Secants & Tangents · 1

ANSWER

100°

Angles Formed by Chords, Secants & Tangents · 4

ANSWER

70°

Angles Formed by Chords, Secants & Tangents · 3

ANSWER

50°

Angles Formed by Chords, Secants & Tangents · 6

ANSWER

80°

Angles Formed by Chords, Secants & Tangents · 5

ANSWER

100°

Angles Formed by Chords, Secants & Tangents · 8

ANSWER

50°

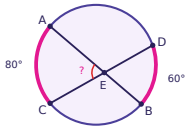
Angles Formed by Chords, Secants & Tangents · 7

ANSWER

20°

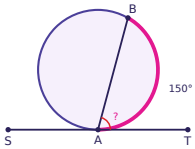
Angles Formed by Chords, Secants & Tangents · 9

Chords AB and CD intersect at E. arc AC = 80° and arc BD = 60°. Find m∠AEC.



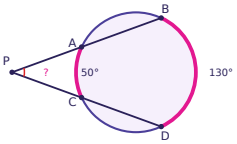
Angles Formed by Chords, Secants & Tangents · 10

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 150°. Find m∠TAB.



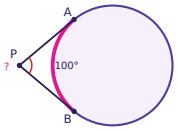
Angles Formed by Chords, Secants & Tangents · 11

Secants PAB and PCD meet at point P outside the circle. arc AC = 50° and arc BD = 130°. Find m∠P.



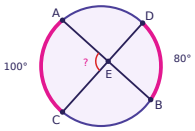
Angles Formed by Chords, Secants & Tangents · 12

PA and PB are tangent to the circle. Minor arc AB = 100°. Find m∠P.



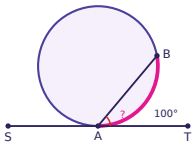
Angles Formed by Chords, Secants & Tangents · 13

Chords AB and CD intersect at E. arc AC = 100° and arc BD = 80°. Find m∠AEC.



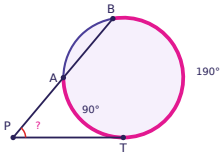
Angles Formed by Chords, Secants & Tangents · 14

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 100°. Find m∠TAB.



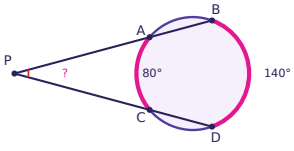
Angles Formed by Chords, Secants & Tangents · 15

PT is tangent to the circle at T, and PAB is a secant. arc TA = 90° and arc TB = 190°. Find m∠P.



Angles Formed by Chords, Secants & Tangents · 16

Secants PAB and PCD meet at point P outside the circle. arc AC = 80° and arc BD = 140°. Find m∠P.



Angles Formed by Chords, Secants & Tangents · 10

ANSWER

75°

Angles Formed by Chords, Secants & Tangents · 9

ANSWER

70°

Angles Formed by Chords, Secants & Tangents · 12

ANSWER

80°

Angles Formed by Chords, Secants & Tangents · 11

ANSWER

40°

Angles Formed by Chords, Secants & Tangents · 14

ANSWER

50°

Angles Formed by Chords, Secants & Tangents · 13

ANSWER

90°

Angles Formed by Chords, Secants & Tangents · 16

ANSWER

30°

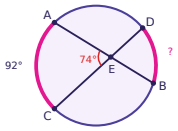
Angles Formed by Chords, Secants & Tangents · 15

ANSWER

50°

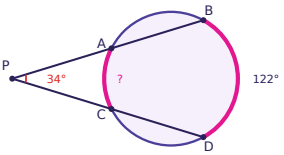
Angles Formed by Chords, Secants & Tangents · 17

Chords AB and CD intersect at E. m∠AEC = 74° and arc AC = 92°. Find the measure of arc BD.



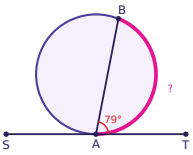
Angles Formed by Chords, Secants & Tangents · 18

Secants PAB and PCD meet at point P outside the circle. m∠P = 34° and arc BD = 122°. Find the measure of arc AC.



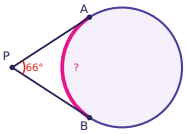
Angles Formed by Chords, Secants & Tangents · 19

Line ST is tangent to the circle at A. m∠TAB = 79°. Find the measure of arc AB (the colored arc).



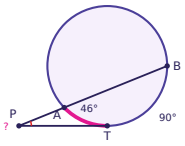
Angles Formed by Chords, Secants & Tangents · 20

PA and PB are tangent to the circle. m∠P = 66°. Find the measure of minor arc AB.



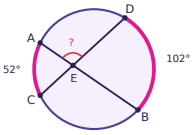
Angles Formed by Chords, Secants & Tangents · 21

PT is tangent to the circle at T, and PAB is a secant. arc TA = 46° and arc TB = 90°. Find m∠P.



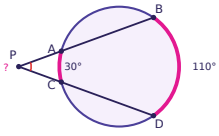
Angles Formed by Chords, Secants & Tangents · 22

Chords AB and CD intersect at E. arc AC = 52° and arc BD = 102°. Find m∠AED.



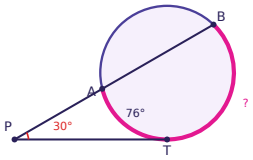
Angles Formed by Chords, Secants & Tangents · 23

Secants PAB and PCD meet at point P outside the circle. arc AC = 30° and arc BD = 110°. Find m∠P.



Angles Formed by Chords, Secants & Tangents · 24

PT is tangent to the circle at T, and PAB is a secant. m∠P = 30° and arc TA = 76°. Find the measure of arc TB.



Angles Formed by Chords, Secants & Tangents · 18

ANSWER

54°

Angles Formed by Chords, Secants & Tangents · 17

ANSWER

56°

Angles Formed by Chords, Secants & Tangents · 20

ANSWER

114°

Angles Formed by Chords, Secants & Tangents · 19

ANSWER

158°

Angles Formed by Chords, Secants & Tangents · 22

ANSWER

103°

Angles Formed by Chords, Secants & Tangents · 21

ANSWER

22°

Angles Formed by Chords, Secants & Tangents · 24

ANSWER

136°

Angles Formed by Chords, Secants & Tangents · 23

ANSWER

40°