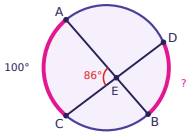
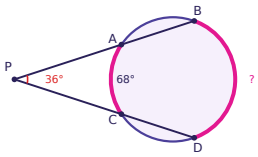
Task card 1 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. m∠AEC = 86° and arc AC = 100°. Find the measure of arc BD.



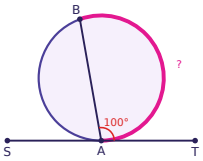
Task card 2 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. m∠P = 36° and arc AC = 68°. Find the measure of arc BD.



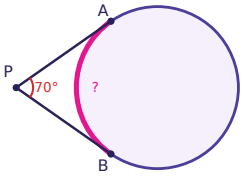
Task card 3 Angles Formed by Chords, Secants &...

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



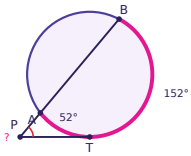
Task card 4 Angles Formed by Chords, Secants &...

PA and PB are tangent to the circle. m∠P = 70°. Find the measure of minor arc AB.



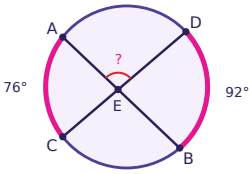
Task card 5 Angles Formed by Chords, Secants &...

PT is tangent to the circle at T, and PAB is a secant. arc TA = 52° and arc TB = 152°. Find m∠P.



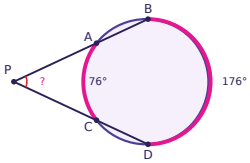
Task card 6 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. arc AC = 76° and arc BD = 92°. Find m∠AED.



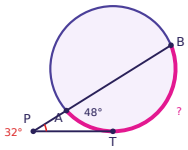
Task card 7 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. arc AC = 76° and arc BD = 176°. Find m∠P.



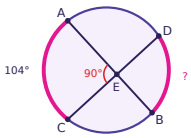
Task card 8 Angles Formed by Chords, Secants &...

PT is tangent to the circle at T, and PAB is a secant. m∠P = 32° and arc TA = 48°. Find the measure of arc TB.



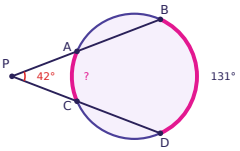
Task card 9 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. m∠AEC = 90° and arc AC = 104°. Find the measure of arc BD.



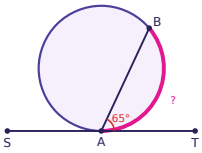
Task card 10 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. m∠P = 42° and arc BD = 131°. Find the measure of arc AC.



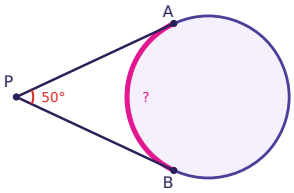
Task card 11 Angles Formed by Chords, Secants &...

Line ST is tangent to the circle at A. m∠TAB = 65°. Find the measure of arc AB (the colored arc).



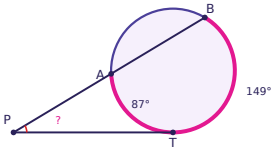
Task card 12 Angles Formed by Chords, Secants &...

PA and PB are tangent to the circle. m∠P = 50°. Find the measure of minor arc AB.



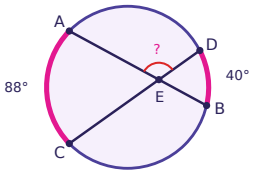
Task card 13 Angles Formed by Chords, Secants &...

PT is tangent to the circle at T, and PAB is a secant. arc TA = 87° and arc TB = 149°. Find m∠P.



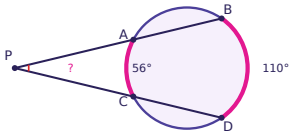
Task card 14 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. arc AC = 88° and arc BD = 40°. Find m∠AED.



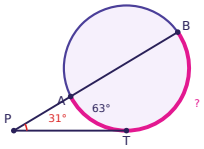
Task card 15 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. arc AC = 56° and arc BD = 110°. Find m∠P.



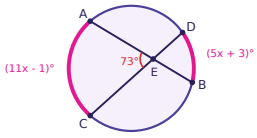
Task card 16 Angles Formed by Chords, Secants &...

PT is tangent to the circle at T, and PAB is a secant. m∠P = 31° and arc TA = 63°. Find the measure of arc TB.



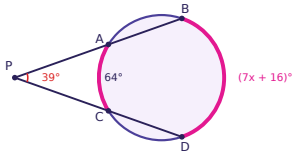
Task card 17 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. arc AC = (11x - 1)°, arc BD = (5x + 3)° and m∠AEC = 73°. Find x.



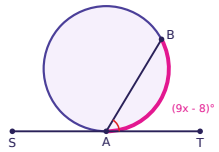
Task card 18 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. arc BD = (7x + 16)°, arc AC = 64° and m∠P = 39°. Find x.



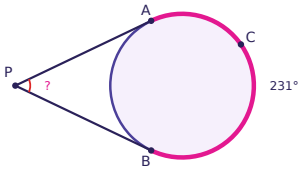
Task card 19 Angles Formed by Chords, Secants &...

Line ST is tangent to the circle at A. Arc AB (the colored arc) = (9x - 8)° and m∠TAB = (4x + 3)°. Find x.



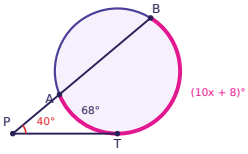
Task card 20 Angles Formed by Chords, Secants &...

PA and PB are tangent to the circle. Major arc ACB = 231°. Find m∠P.



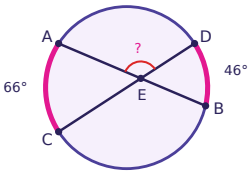
Task card 21 Angles Formed by Chords, Secants &...

PT is tangent to the circle at T, and PAB is a secant. arc TB = (10x + 8)°, arc TA = 68° and m∠P = 40°. Find x.



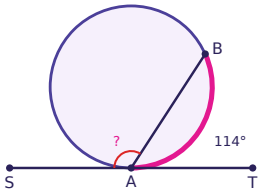
Task card 22 Angles Formed by Chords, Secants &...

Chords AB and CD intersect at E. arc AC = 66° and arc BD = 46°. Find m∠AED.



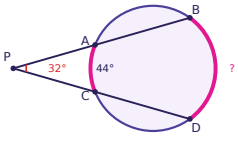
Task card 23 Angles Formed by Chords, Secants &...

Line ST is tangent to the circle at A. Arc AB (the colored arc) = 114°. Find m∠SAB.



Task card 24 Angles Formed by Chords, Secants &...

Secants PAB and PCD meet at point P outside the circle. m∠P = 32° and arc AC = 44°. Find the measure of arc BD.



Angles Formed by Chords, Secants & Tangents Task Cards

Recording sheet · Grade 10 · Lines that look tangent are tangent. The colored arcs are the arcs named in each question. Find each angle, arc or x.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Angles Formed by Chords, Secants & Tangents Task Cards: Answer Key

Grade 10 · Medium

The answers online

1. 72°	**2.** 140°	**3.** 200°
4. 110°	**5.** 50°	**6.** 96°
7. 50°	**8.** 112°	**9.** 76°
10. 47°	**11.** 130°	**12.** 130°
13. 31°	**14.** 116°	**15.** 27°
16. 125°	**17.** 9	**18.** 18
19. 14	**20.** 51°	**21.** 14
22. 124°	**23.** 123°	**24.** 108°