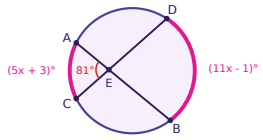
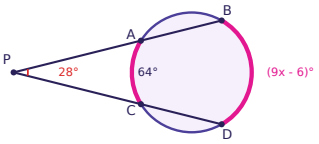
Task card 1 Angles Formed by Chords, Secants &...

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



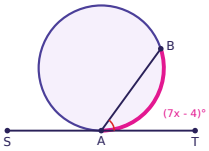
Task card 2 Angles Formed by Chords, Secants &...

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



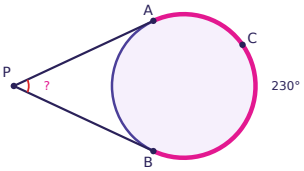
Task card 3 Angles Formed by Chords, Secants &...

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



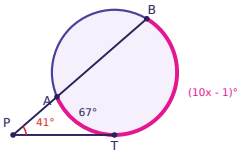
Task card 4 Angles Formed by Chords, Secants &...

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



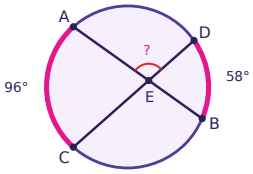
Task card 5 Angles Formed by Chords, Secants &...

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.



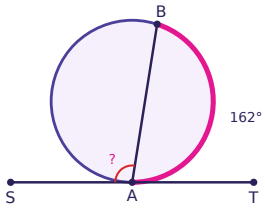
Task card 6 Angles Formed by Chords, Secants &...

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



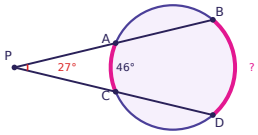
Task card 7 Angles Formed by Chords, Secants &...

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



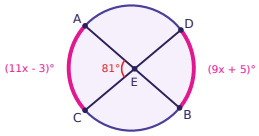
Task card 8 Angles Formed by Chords, Secants &...

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



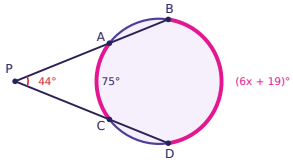
Task card 9 Angles Formed by Chords, Secants &...

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



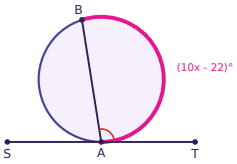
Task card 10 Angles Formed by Chords, Secants &...

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



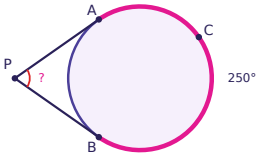
Task card 11 Angles Formed by Chords, Secants &...

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



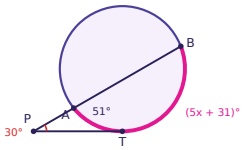
Task card 12 Angles Formed by Chords, Secants &...

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



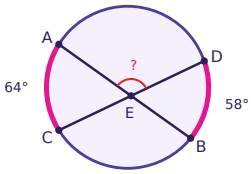
Task card 13 Angles Formed by Chords, Secants &...

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.



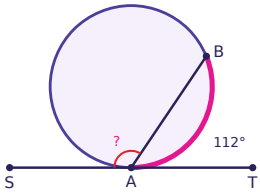
Task card 14 Angles Formed by Chords, Secants &...

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



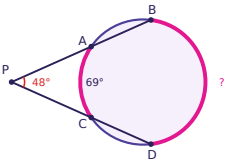
Task card 15 Angles Formed by Chords, Secants &...

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



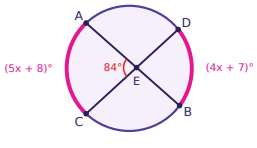
Task card 16 Angles Formed by Chords, Secants &...

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



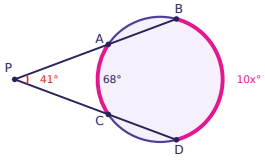
Task card 17 Angles Formed by Chords, Secants &...

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



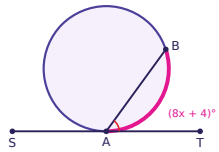
Task card 18 Angles Formed by Chords, Secants &...

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



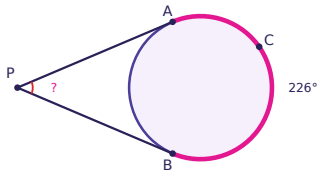
Task card 19 Angles Formed by Chords, Secants &...

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



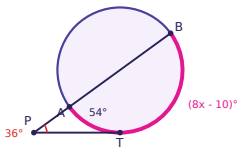
Task card 20 Angles Formed by Chords, Secants &...

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



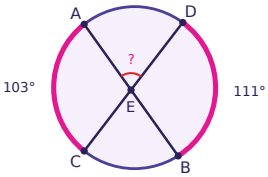
Task card 21 Angles Formed by Chords, Secants &...

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



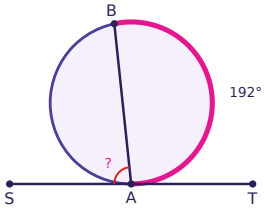
Task card 22 Angles Formed by Chords, Secants &...

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



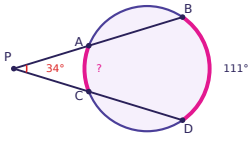
Task card 23 Angles Formed by Chords, Secants &...

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



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

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 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 · Hard

The answers online

1. 10	**2.** 14	**3.** 16
4. 50°	**5.** 15	**6.** 103°
7. 99°	**8.** 100°	**9.** 8
10. 24	**11.** 22	**12.** 70°
13. 16	**14.** 119°	**15.** 124°
16. 165°	**17.** 17	**18.** 15
19. 13	**20.** 46°	**21.** 17
22. 73°	**23.** 84°	**24.** 43°