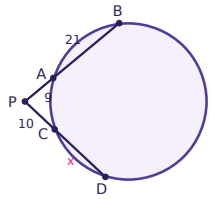
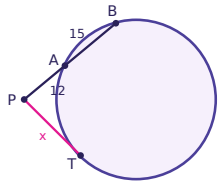
**Task card 1** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



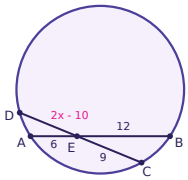

**Task card 2** Tangents, Chords & Secant Segments

PT is tangent to the circle and PAB is a secant. Find x.



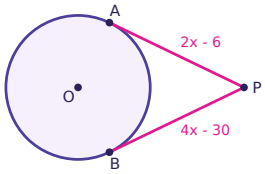

**Task card 3** Tangents, Chords & Secant Segments

Chords AB and CD intersect at E. ED = 2x - 10. Find x.



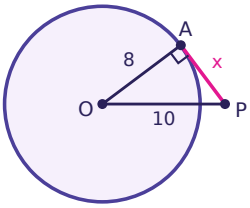

**Task card 4** Tangents, Chords & Secant Segments

PA and PB are tangent to circle O. PA = 2x - 6 and PB = 4x - 30. Find x.



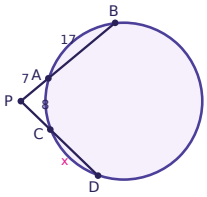

**Task card 5** Tangents, Chords & Secant Segments

PA is tangent to circle O at A. Find x.



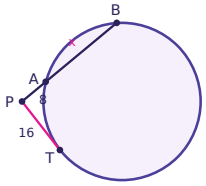

**Task card 6** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



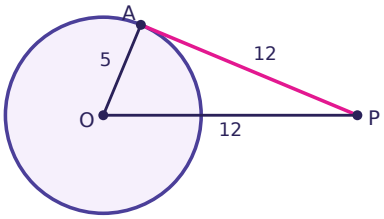
**Task card 7** Tangents, Chords & Secant Segments

PT is tangent to the circle and PAB is a secant. Find x.



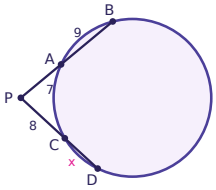

**Task card 8** Tangents, Chords & Secant Segments

Is PA tangent to circle O? Answer yes or no.



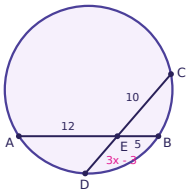

**Task card 9** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



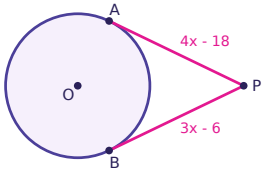

**Task card 10** Tangents, Chords & Secant Segments

Chords AB and CD intersect at E. ED = 3x - 3. Find x.



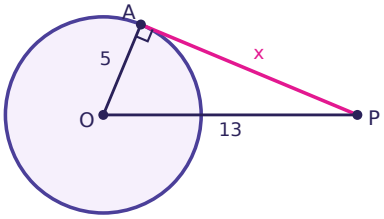

**Task card 11** Tangents, Chords & Secant Segments

PA and PB are tangent to circle O. PA = 4x - 18 and PB = 3x - 6. Find x.



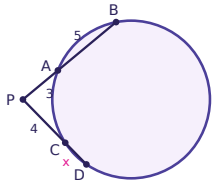

**Task card 12** Tangents, Chords & Secant Segments

PA is tangent to circle O at A. Find x.



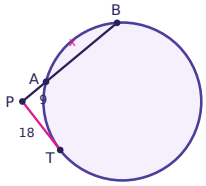
**Task card 13** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



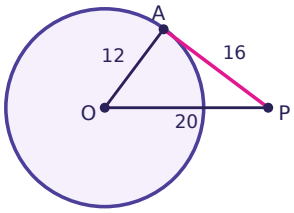

**Task card 14** Tangents, Chords & Secant Segments

PT is tangent to the circle and PAB is a secant. Find x.



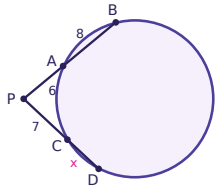

**Task card 15** Tangents, Chords & Secant Segments

Is PA tangent to circle O? Answer yes or no.



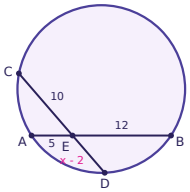

**Task card 16** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



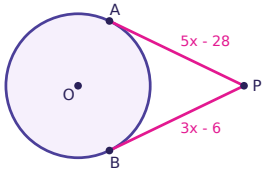

**Task card 17** Tangents, Chords & Secant Segments

Chords AB and CD intersect at E. ED = x - 2. Find x.



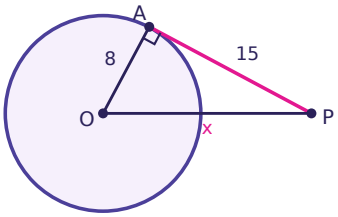

**Task card 18** Tangents, Chords & Secant Segments

PA and PB are tangent to circle O. PA = 5x - 28 and PB = 3x - 6. Find x.



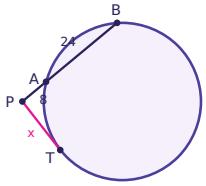
**Task card 19** Tangents, Chords & Secant Segments

PA is tangent to circle O at A. Find x.



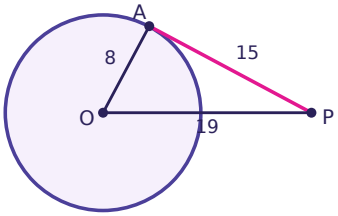

**Task card 20** Tangents, Chords & Secant Segments

PT is tangent to the circle and PAB is a secant. Find x.



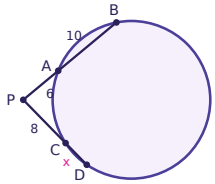

**Task card 21** Tangents, Chords & Secant Segments

Is PA tangent to circle O? Answer yes or no.



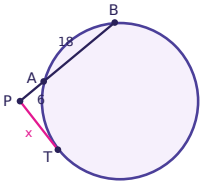

**Task card 22** Tangents, Chords & Secant Segments

Secants PAB and PCD are drawn to the circle from P. Find x.



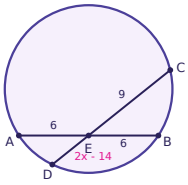

**Task card 23** Tangents, Chords & Secant Segments

PT is tangent to the circle and PAB is a secant. Find x.




**Task card 24** Tangents, Chords & Secant Segments

Chords AB and CD intersect at E. ED = 2x - 14. Find x.



# Tangents, Chords & Secant Segments Task Cards

Recording sheet · Grade 10 · O is the center of each circle. Lines that look tangent are tangent. Find 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 |

# Tangents, Chords & Secant Segments Task Cards: Answer Key

Grade 10 · Hard

The answers online

| | | |
|---|---|---|
| **1.** 17 | **2.** 18 | **3.** 9 |
| **4.** 12 | **5.** 6 | **6.** 13 |
| **7.** 24 | **8.** no | **9.** 6 |
| **10.** 3 | **11.** 12 | **12.** 12 |
| **13.** 2 | **14.** 27 | **15.** yes |
| **16.** 5 | **17.** 8 | **18.** 11 |
| **19.** 17 | **20.** 16 | **21.** no |
| **22.** 4 | **23.** 12 | **24.** 9 |