

Chapter 10 Test, Form 1

SCORE 17/20

Write the letter for the correct answer in the blank at the right of each question.

For Questions 1–3, use $\odot X$

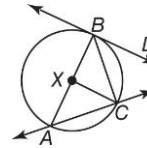
1. Name a radius.

A \overline{XB}

B \overline{AB}

C \overline{BC}

D \overline{AC}



1. A

2. Name a chord.

F \overline{XB}

G \overline{XC}

H \overline{BC}

D \overline{AC}

2. H

3. Name a tangent.

A \overline{AB}

B \overline{BC}

C \overline{AC}

D \overline{BD}

3. D

4. The wheels on Elliot's truck each have a circumference of 22 inches.
 Determine the radius of each wheel to the nearest length.

F 2.5 in.

G 3.5 in.

H 5 in.

J 7 in.

4. G

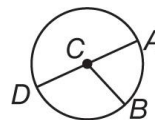
5. In $\odot C$, $m\widehat{AB} = 72$. Find $m\angle BCD$.

A 72

B 108

C 144

D 180



5. B

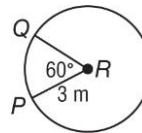
6. Find the length of \widehat{PQ} in $\odot R$ to the nearest hundredth.

F 9.42 m

H 3.14 m

G 4.71 m

J 1.57 m



6. G

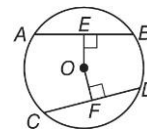
7. In $\odot O$, $AB = 12$ cm, $OE = 4$ cm, and $OF = 4$ cm. Find CF .

A 6 cm

B 8 cm

C 12 cm

D 24 cm



7. A

8. Find the radius of a circle if a 48-meter chord is 7 meters from the center.

F 14 m

G 24 m

H 25 m

J 41 m

8. H

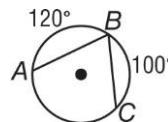
9. Find $m\angle ABC$.

A 50

B 70

C 90

D 140



9. B

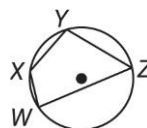
10. If $m\angle X = 126$, find $m\angle Z$.

F 54

G 63

H 90

J 126



10. F

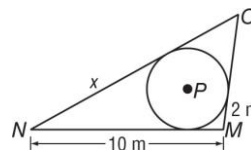
11. If \overline{MN} , \overline{NO} , and \overline{MO} are tangent to $\odot P$, find x .

A 2 m

B 5 m

C 6 m

D 8 m



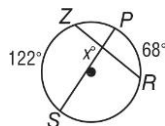
11. C

Chapter 10 Test, Form 1 *(continued)*

12. Find x .

- F** 122
G 95

- H** 68
J 61

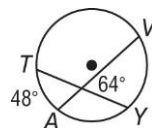


12. **H** _____

13. Find $m\widehat{VY}$.

- A** 16
B 56

- C** 80
D 112

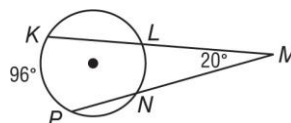


13. **C** _____

14. Find $m\widehat{LN}$.

- F** 38
G 56

- H** 58
J 76

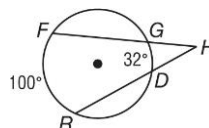


14. **G** _____

15. Find $m\angle H$.

- A** 132
B 68

- C** 66
D 34

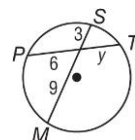


15. **D** _____

16. Find y .

- F** 18
G 12

- H** 6
J 4.5

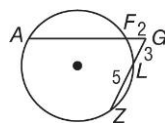


16. **J** _____

17. Find AF .

- A** 11.25
B 10

- C** 7.5
D 4



17. **B** _____

18. Find the length of the radius of the circle whose equation is

$$(x + 3)^2 + (y - 7)^2 = 289.$$

F 7

G 17

H 34

J 289

18. **G** _____

19. Find the equation of a circle with center $(0, 0)$ and radius 4.

A $x^2 + y^2 = 4$

C $(x - 4)^2 + (y - 4)^2 = 16$

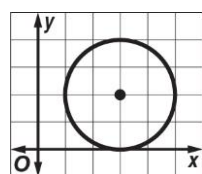
B $x^2 + y^2 = 16$

D $4x + 4y = 16$

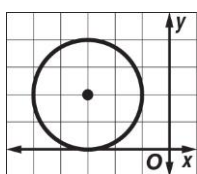
19. **B** _____

20. Identify the graph of $(x - 3)^2 + (y + 2)^2 = 4$.

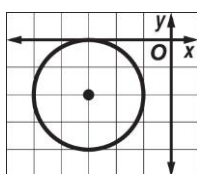
F



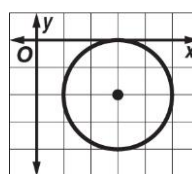
G



H

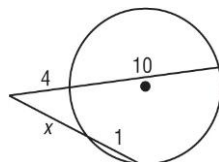


J



20. **J** _____

Bonus Find x .



B: _____