

6.1 - 6.6 Review

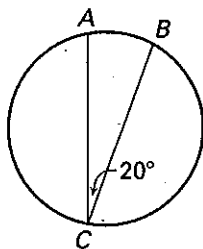
Math 2 Unit 3

Circles

Name: _____
 date: _____

1. **Multiple Choice**
 What is $m\widehat{AB}$?

- (A) 10° (B) 20°
- (C) 30° (D) 40°
- (E) 60°

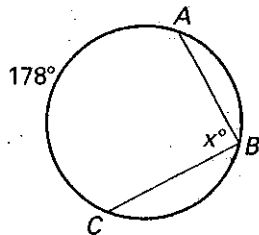


2. **Multiple Choice** If an inscribed angle has a measure of 100° , what is the measure of the intercepted arc?

- (A) 100° (B) 200° (C) 50°
- (D) 0° (E) 180°

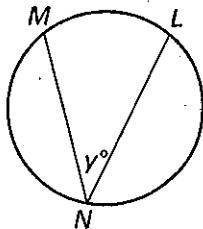
3. **Multiple Choice** Find the value of x .

- (A) 178 (B) 356
- (C) 89 (D) 182
- (E) 91



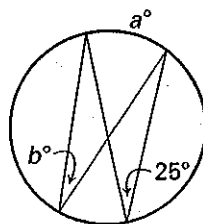
4. **Multiple Choice** If $m\widehat{LNM} = 280^\circ$, find the value of y .

- (A) 40 (B) 80
- (C) 160 (D) 140
- (E) 280



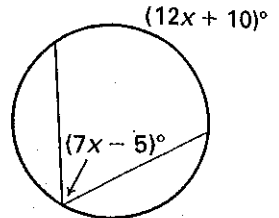
5. **Multiple Choice** Find the values of a and b .

- (A) $a = 50, b = 50$
- (B) $a = 25, b = 50$
- (C) $a = 50, b = 25$
- (D) $a = 25, b = 25$
- (E) $a = 100, b = 25$



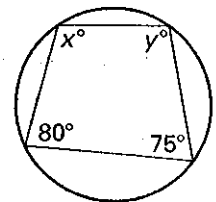
6. **Multiple Choice** Find the value of x .

- (A) 5 (B) 3
- (C) 8 (D) 10
- (E) 7.5



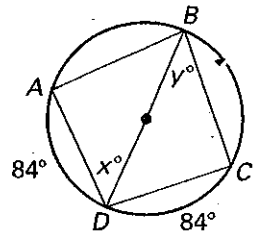
7. **Multiple Choice** Find the values of x and y .

- (A) $x = 80, y = 75$
- (B) $x = 105, y = 100$
- (C) $x = 75, y = 80$
- (D) $x = 100, y = 105$
- (E) $x = 90, y = 115$



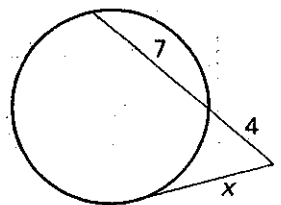
8. **Multiple Choice** Find the values of x and y .

- (A) $x = 6, y = 84$
- (B) $x = 42, y = 48$
- (C) $x = 42, y = 42$
- (D) $x = 90, y = 84$
- (E) $x = 48, y = 42$



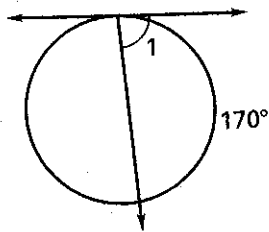
9. **Multiple Choice** Find the value of x . Round to the nearest tenth, if necessary.

- (A) 22 (B) 8.8
- (C) 5.3 (D) 6.6
- (E) 14



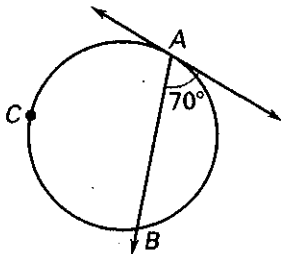
10. Multiple Choice
Find $m\angle 1$.

- (A) 170° (B) 85°
(C) 190° (D) 95°
(E) 340°



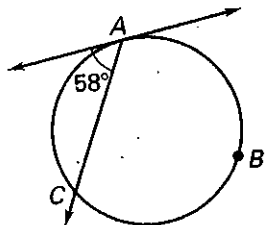
11. Multiple Choice
Find $m\widehat{AB}$.

- (A) 110° (B) 70°
(C) 140° (D) 220°
(E) 35°



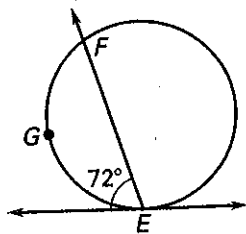
12. Multiple Choice
Find $m\widehat{ABC}$.

- (A) 58° (B) 116°
(C) 122° (D) 29°
(E) 244°



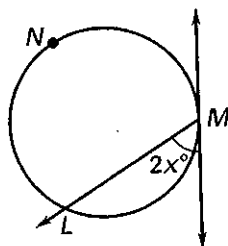
13. Multiple Choice If $m\widehat{EGF} = (6x + 12)^\circ$,
find the value of x .

- (A) 22 (B) 11
(C) 16 (D) 10
(E) 20



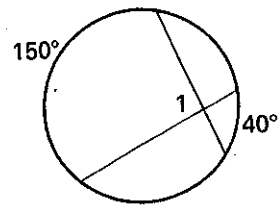
14. Multiple Choice If $m\widehat{LNM} = (8x + 12)^\circ$,
find the value of x .

- (A) 14 (B) 16.8
(C) 28 (D) 29
(E) 34.8



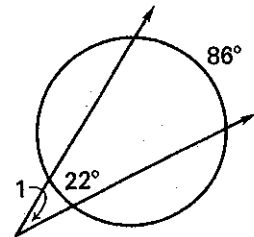
15. Multiple Choice
Find $m\angle 1$.

- (A) 75° (B) 190°
(C) 95° (D) 150°
(E) 40°



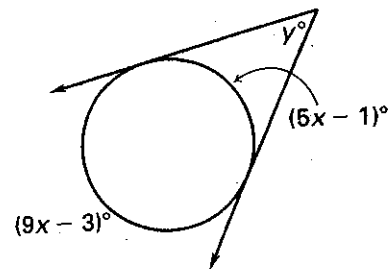
16. Multiple Choice
Find $m\angle 1$.

- (A) 64° (B) 32°
(C) 108° (D) 54°
(E) 86°



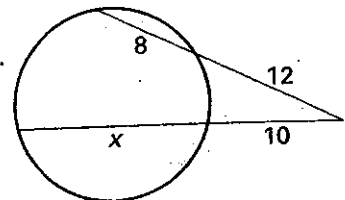
17. Multiple Choice Find the value of y .

- (A) 26
(B) 77
(C) 102
(D) 51
(E) 52



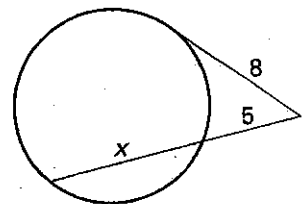
18. Multiple Choice
Find the value of x .

- (A) 10 (B) 5
(C) 9.6 (D) 12
(E) 14



19. Multiple Choice
Find the value of y .

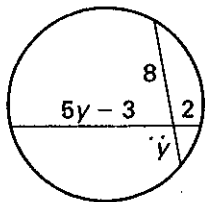
- (A) 3.2 (B) 12.8
(C) 4.9 (D) 7.8
(E) 1.8



20. **Multiple Choice**

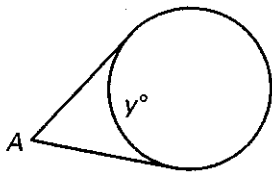
Find the value of y .

- (A) 2 (B) 3
- (C) 4 (D) 5
- (E) 6



21. If $m\angle A = 58^\circ$, find the value of y in the diagram.

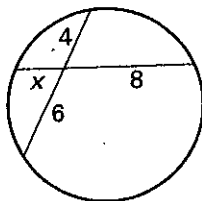
- (A) 58
- (B) 119
- (C) 238
- (D) 122
- (E) 180



22. **Multiple Choice**

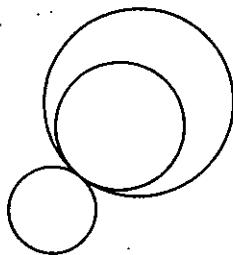
Find the value of x .

- (A) 3 (B) 4
- (C) 5 (D) 6
- (E) 8



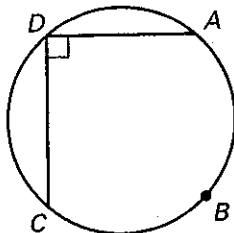
23. How many common tangents do the circles at the right have?

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- (E) 4



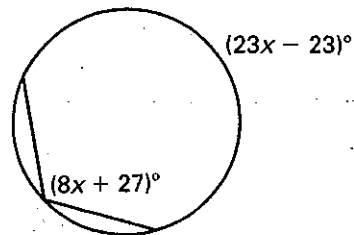
24. Use the diagram to find $m\widehat{ABC}$.

- (A) 270°
- (B) 90°
- (C) 150°
- (D) 230°
- (E) 180°



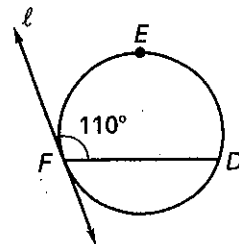
25. Use the diagram to find the value of x .

- (A) $\frac{20}{3}$
- (B) 15
- (C) $\frac{3}{20}$
- (D) 11
- (E) 30



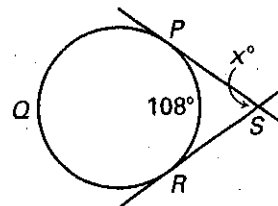
26. Use the diagram to find $m\widehat{DEF}$.

- (A) 140°
- (B) 250°
- (C) 220°
- (D) 70°
- (E) 180°



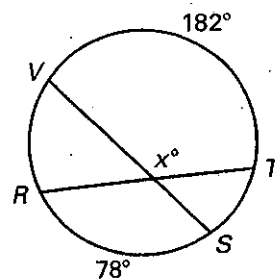
27. Use the diagram to find the value of x .

- (A) 90°
- (B) 77°
- (C) 108°
- (D) 72°
- (E) 100°



28. Use the diagram to find the value of x .

- (A) 125°
- (B) 50°
- (C) 104°
- (D) 52°
- (E) 130°



29. Use the diagram to find the value of x .

- (A) 8
- (B) 12
- (C) 14
- (D) 10
- (E) 16

