Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Integrated 2 Review Questions

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| 1. | *GJ* = ? | 2. | Determine the measure of arc *LM*. |
| 3. | In the given circle, and . | 4. | Determine the measure of arc *AD*. |
| 5. | Determine the length of segment *AB*. | 6. | The point (-8, 7) lies on a circle whose equation is . What is the radius of the circle? |
| 7. | Draw and label a 45-45-90 triangle, using special triangles. | 8. | Draw and label a 30-60-90 triangle, using special triangles. |
| 9. | Write the trigonometric ratio for tan*R* as a fraction. | 10. | Approximately how tall is the tree (round to the nearest tenth)? |
| 11. | Determine the length of *AB*. Round to the nearest hundredth. | 12. | Write the trigonometric ratio and solve for *x*. |
| 13. | In the given triangle, *PQ* = 5 and *QR* = 13. Write cos*R* as a fraction. | 14. | A ranger spots a fire from the top of a 500 ft watchtower. If the angle of depression from the top of the watchtower to the fire is 68˚, what is the horizontal distance between them? Round to the nearest foot. |
| 15. | Determine the area of the kite. | 16. | The regular hexagon has a side length of 6. Determine its area. |
| 17. | Determine the area of the parallelogram. | 18. | Determine the area of the composite figure. |
| 18. | Find the shaded area. Leave your answer in terms of . | 19. | *M* is the midpoint of . *M* has coordinates (7, 5) and *L* has coordinates (-2, 6). What are the coordinates of *N*? |
| 20. | Identify the angle that is alternate exterior to . | 21. | Find . |
| 22. | Determine . | 23. | *DEF ~ LMN*. If the similarity ratio is , what is *MN*? |