Geometry Chapter 11 Practice Test 2

Name _____

Which of the figures below can be folded into a cube? _____

Figure 1

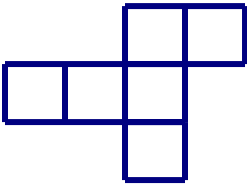**Figure 2**
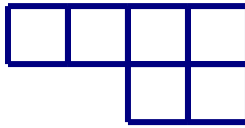
Figure 3
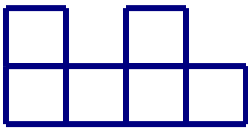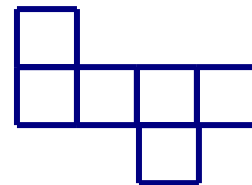
Figure 4

Figure 5
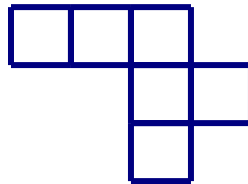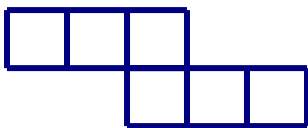
Figure 6

Figure 7

Figure 8
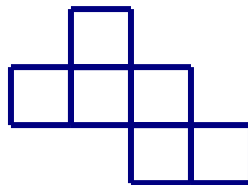
Figure 9
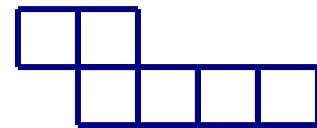
Consider the following equations of circles. Give the center and radius of each.

2. $(x + 3)^2 + (y + 1)^2 = 16$ Center = _____   Radius = _____

3. $(x - 6)^2 + (y + 7)^2 = 1$ Center = _____   Radius = _____

4. $x^2 + (y - 2)^2 = 9$ Center = _____   Radius = _____

5. $x^2 + y^2 = 100$ Center = _____   Radius = _____

6. $(x - 12)^2 + (y + 42)^2 = 144$ Center = _____   Radius = _____

7. $(x - 11)^2 + (y + 1)^2 = 121$ Center = _____   Radius = _____

Give the equation of the circle that has the given center and given radius.

8.   Center = (0, 5)   Radius = 5   Equation = _____

9.   Center = (-1, 0)   Radius = 3   Equation = _____

10. Center = (0, -20)   Radius = 2   Equation = _____

11. Center = (-2, -70)   Radius = 12   Equation = _____

12. Center = (-5, -13)   Radius = 4   Equation = _____

13. If A = (-7, -4) and it is reflected over the y-axis, where will it land?   _____

14. If A = (-5, 5) and it is reflected over the x-axis, where will it land?   _____

15. If A = (-11, -41) and it is reflected over the line y = 4, where will it land?   _____

16. If A = (0, 0) and it is reflected over the line x = 2, where will it land?   _____

17. If A = (23, -60) and it is reflected over the line y = x, where will it land?   _____

18. If A = (-41, 22) and it is reflected over the line y = x, where will it land?   _____

19. Circle the shapes below that don't have any type of symmetry

Regular Pentagon   Parallelogram   Isosceles Trapezoid   Capital letter L   Scalene Triangle

20. Which line of reflection maps point A at (-2, 2) to point A' at (2, 2)?
     A.) y = 4   B.) x = -4   C.) y = -4   D.) x = 4   E.) x-axis   F.) y = x   G.) y-axis

21. Which line of reflection maps point A at (-3, 3) to point A' at (3, -3)?
     A.) y = 4   B.) x = -4   C.) y = -4   D.) x = 4   E.) x-axis   F.) y = x   G.) y-axis

22. Which line of reflection maps point A at (-2, 7) to point A' at (2, 7)? _____
     A.) y = 4   B.) x = -4   C.) y = -4   D.) x = 4   E.) x-axis   F.) y = x   G.) y-axis

27. Give the equation of the circle whose diameter has endpoints at (-2,2) and (4, 2)?

     _____

Given the point and the translation, tell where the new point will be.

28. Point = (0, -51)   Translation = (x + 5, y − 2)   New Point = _____

29. Point = (-31, -44)   Translation = (x, y + 3)   New Point = _____

30. Point = (-31, -335)   Translation = (x − 3, y)   New Point = _____