Chapter 1 review

1. Algebraically find the x and y intercepts of

a.  b.  c. 

2. Given the following graph. Sketch the following types of symmetry:

 a. x-axis

 b. y-axis

 c. origin

3. Find the equation of the circles described below. Accurately graph them.

 a. center at (4,-2) and radius of 4 b . center at (-3,2) and goes through the point (5,1)

4. Solve the following equations for x.

 a.  b. c.  d.  e. 

5. **Dimensions of a Sports Court:** The length of a sports court is 1.5 times as wide as it is long, and the perimeter is 90 feet.

a. Write *w* in terms of *l* and write an equation for the perimeter in terms of *l.*

b. Find the dimensions of the sport court.

6. **Grades:** In your math class you have 7 tests per semester, each one is worth 100 points. You have taken 6 of the tests and have scored 88, 76, 91, 83, 85 and 93. You would like to have an average of 87% in the test category. What must you earn on the final test to have this average?

7 Solve the following equations

 a.  b.  c. 

8. Test the following equations for symmetry with the *x-axis, y-axis*  and *origin*.

 a.  b.  c. 

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7 Solve the following equations

 a. factoring

 a.  b.  c. 