Name - _ _ _ _ _ _ _ _   Start time - _ _ : _ _   End time - _ _ : _ _

Solve the following.

1. Evaluate for the given values of a and b.

      $a2 + b2$, for a = 2 and b = 2

      $|2a - 3b|$, for a = -3 and b = 5

      $3a3 - 4b4$, for a = -1 and b = -2

2. Solve-

    a. $x + 3 < 0$

    b. $x + 1 > -x + 5$

    c. $2(x - 2) < -(x + 7)$

3. For what value of the constant **k** does the quadratic equation $x^2 + 2x = -2k$ have two distinct real solutions?

4. For what value of the constant **b** does the linear equation 2x + by = 2 have a slope equal to 2?

5. What is the y intercept of the line **-4x + 6y = -12**?

6. What is the x intercept of the line **-3x + y = 3**?

7. What is point of intersection of the lines **x - y = 3** and **-5x - 2y = -22**?

8. What is the slope of the line with equation **y - 4 = 10**?

1   2   3   4   5   6   7   8   9