

Homework 1

Due Friday 8/31 in class.

(Strauss: 1.1 problems 6, 16, 28, 34, 40)

6. Plot P and Q on a Cartesian plane , find the distance between them, and find the coordinates of the midpoint of the line \overline{PQ}

a. P(-5,3), Q(-5,-7)

b. P(-4,3), Q(3,-4)

16. Solve for t: $|5 - 3t| = 14$

28. Solve and give answer in interval notation:

$$-3 < y - 5 \leq 2$$

34. Solve and give answer in interval notation:

$$|x - 5| < 0.01$$

40. Find center and radius of the following circle. Graph the circle.

$$4x^2 + 4y^2 + 4y - 15 = 0$$