

1.8 Homework

Write your answers notebook paper, not this sheet.

For some problems, it is helpful to use graph paper and plot the points.

- Find the coordinates of the midpoint between each pair of points.
 - (2, 3) and (8, 11)
 - (-4, 10) and (1, -2)
 - (-1, -5) and (-13, 7)
- The midpoint of AB has coordinates (6, 2). Find the coordinates of point B if A is located at:
 - A(1,5)
 - A(-3, -6)
- Find the length of each segment. Show your work. Use either the Pythagorean Theorem or the Distance Formula. Round your answer to 2 decimal places.
 - (3, 11) and (10, 5)
 - (-5, -2) and (16, 12)
 - (-8, -9) and (21, -4)

Pythagorean Theorem: $a^2 + b^2 = c^2$

$$\text{Distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$