

1. Use the Distance Formula; round answers to the nearest tenth.

a. H(8, 1) and P(3, 5). Find HP.

b. R(-3, 4) and T(-5, -6). Find RP.

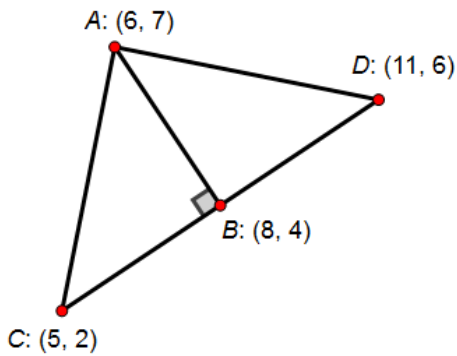
2. Use the Midpoint Formula, to find the midpoint of each segment.

a. \overline{HP} , where H(8, 1) and P(3, 5).

b. \overline{RT} , where R(-3, 4) and T(-5, -6).

3. \overline{AB} is the altitude of triangle CAD.

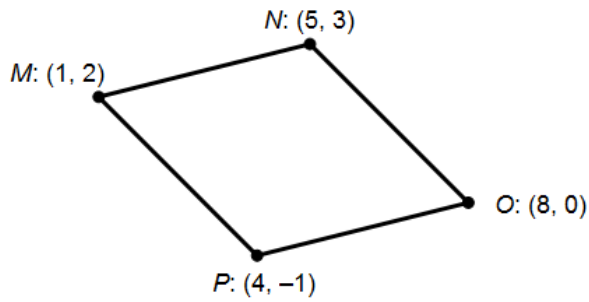
a. Find AB, to the nearest tenth.



b. Is point B the midpoint of \overline{CD} ? Use the midpoint or the distance formula to justify a response.

In Geometry when two segments “bisect each other” they share the same midpoint.

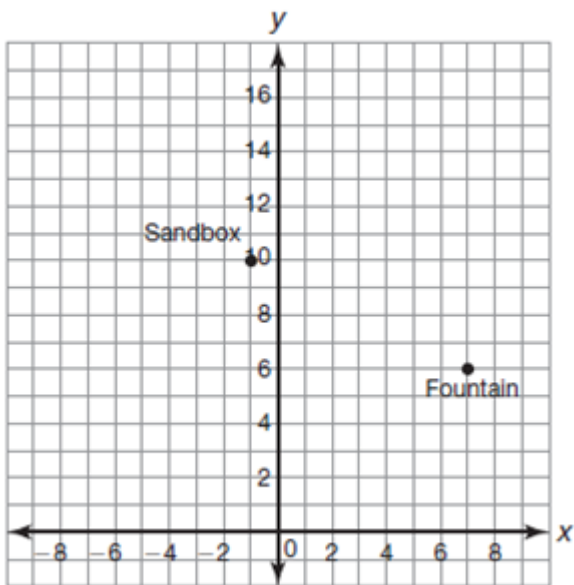
4. Quadrilateral MNOP.



a. Draw \overline{MO} and \overline{NP} and determine if they bisect each other. Justify your work.

b. Is $MP = NO$. Justify your work.

5. The grid shows the location of a sandbox and a fountain in a park.



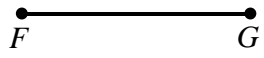
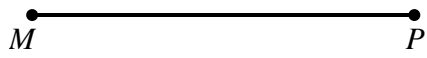
a. Find, to the nearest tenth, the **distance** between the sandbox and fountain. *Remember to show how you got your answer.*

b. You are going to meet your friend at a point half way between the sandbox and fountain. Locate this point on the grid and state the coordinates.

c. You dropped your keys $\frac{1}{4}$ of the way from the sandbox. Locate this point on the grid and state the coordinates.

Mixed Review:

6. Use the segments below to construct an isosceles triangle.



7. Construct the angle bisector of angle HRS.

