

**LENGTH OF LINE APPLICATIONS****LEARNING GOALS**

Students will:

- Use the length formula to find the distance between two points on a graph.

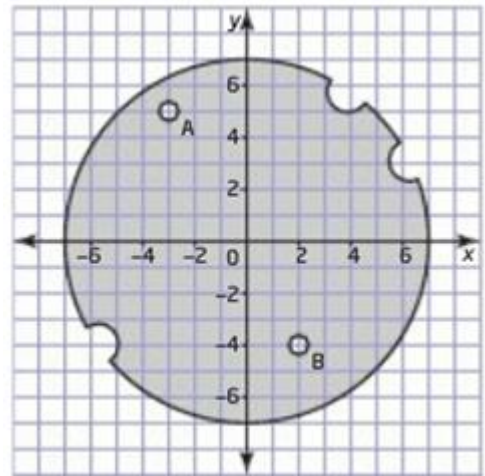
**LENGTH OF LINE**

Length of Line

Formula:

**EXAMPLE 1: CALCULATE A LENGTH**

To make round parts programmable machine tools often use a coordinate system with the origin at the centre of the part. How far apart are the centres of the mounting holes A and B in this cam? *The coordinates are in centimetres. Round your answer to the nearest tenth.*





**EXAMPLE 3: FIND THE LENGTH OF A MEDIAN**

Find the length of the median from P for a triangle with vertices P (-2, -2), Q (7, -1), and R (1, 5).

**HOMEFUN ☺**

Ho-Calculating the Length of a Line Segment

Ho-Worksheet 4-1-2: Length of Dot Paper Segments

Read pgs. 70, 74-76. pg. 77-79 #1-6,12,13,15,20