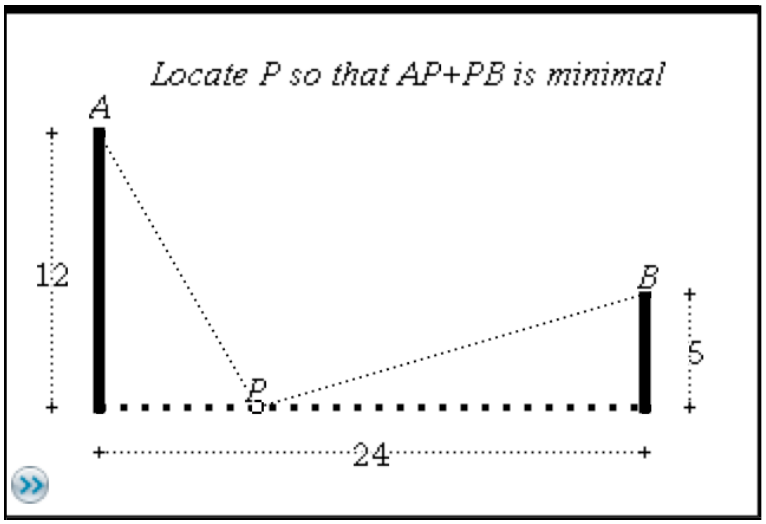
Problem 1

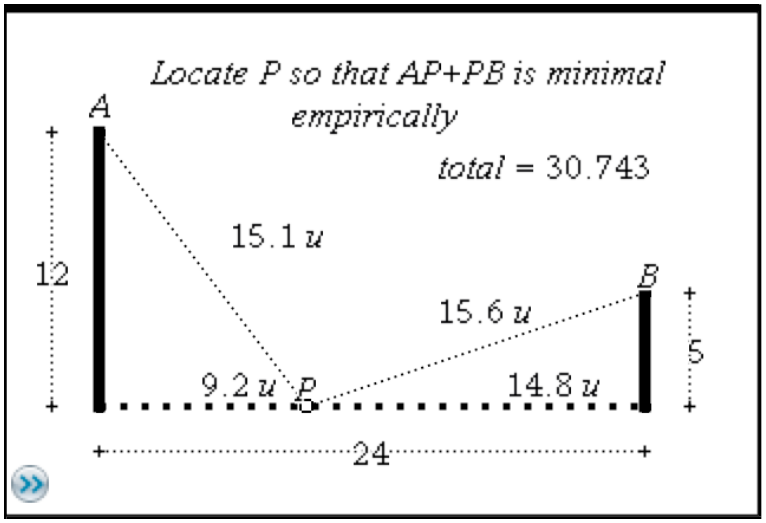
A math problem:

A sailboat has two masts. One is 5 m tall, the other 12 m tall, and they are 24 m apart. They must be secured to the same location using one length of rigging. What is the least amount of rigging that can be used?

1.1

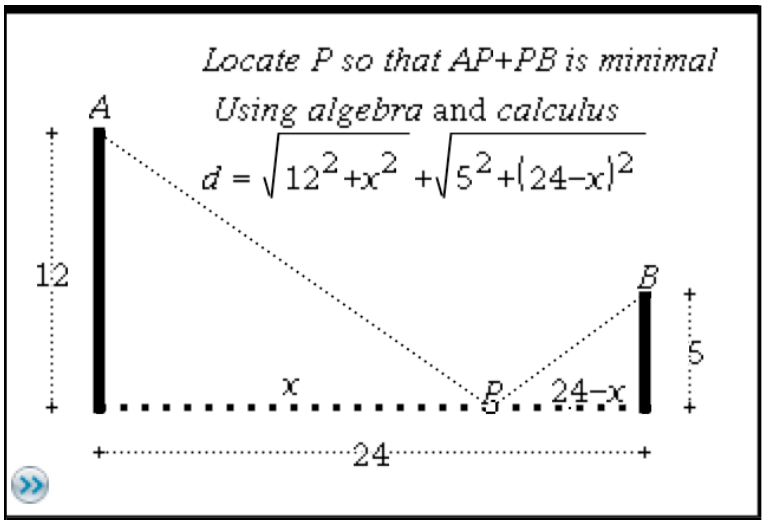


1.2



1.3

Problem 2



2.1

Problem 3

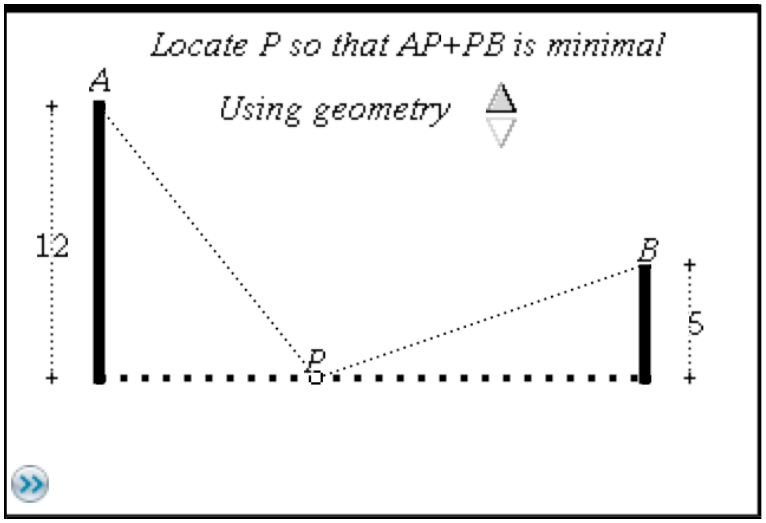
Note:

on the next page,

click up arrow once to reflect B to C

click down arrow to restore default

3.1



3.2

Problem 4

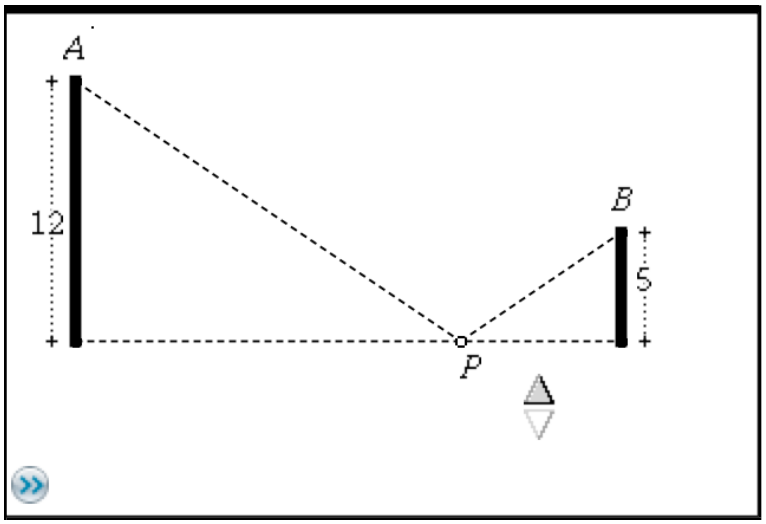
Note:

click up arrow once to intersect the diagonals

click again to drop the perpendicular

click down arrow to restore diagram to default

4.1



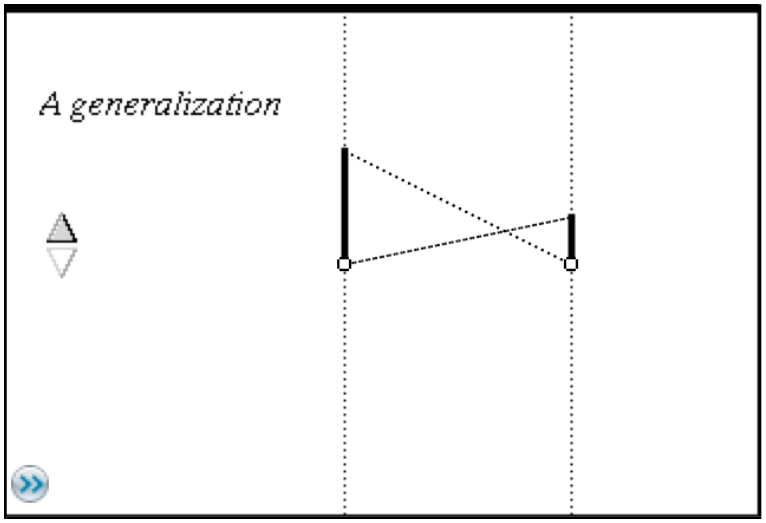
4.2

Problem 5

Drag the open circles to investigate the generalization.

Click up arrow to reveal line joining the two points of intersection. click down arrow to restore default.

5.1



5.2