Mathematics

Line segments
Downloadable resource.
Lesson 2 of 8

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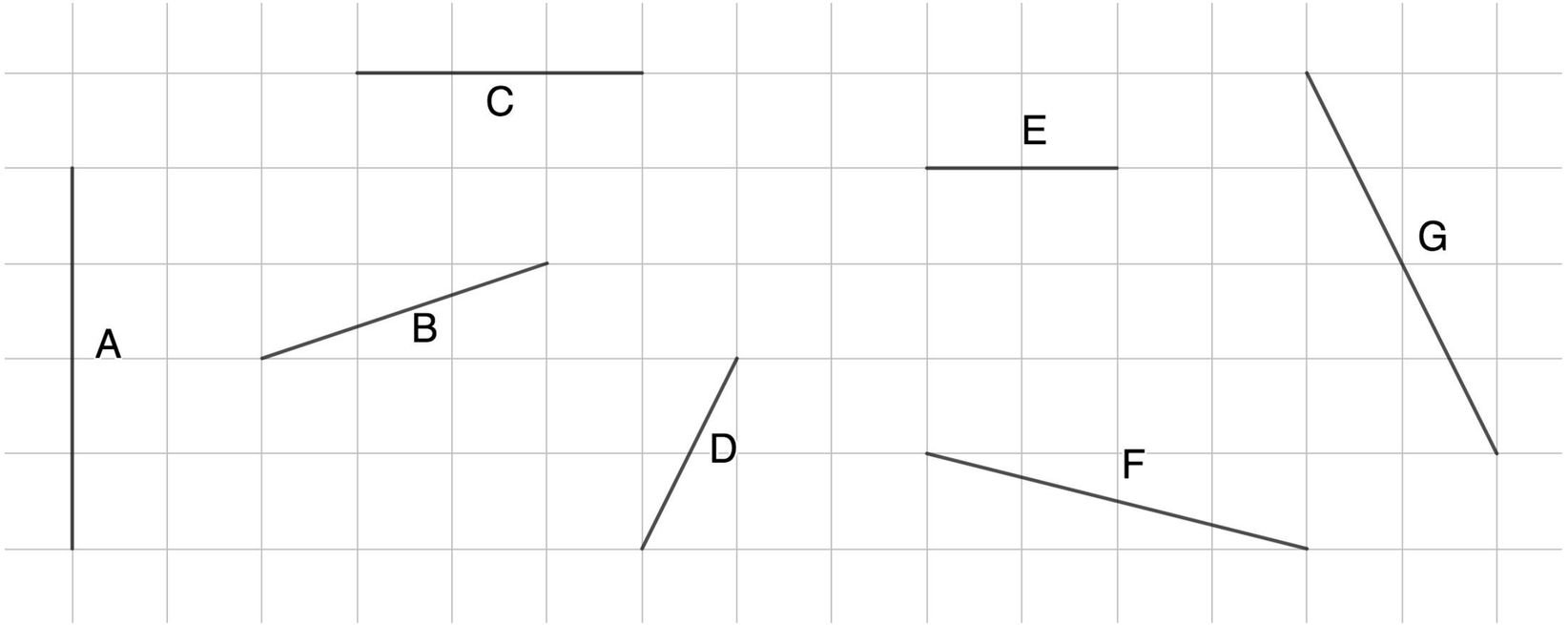
Try this

Put the line segments into order from shortest to longest.

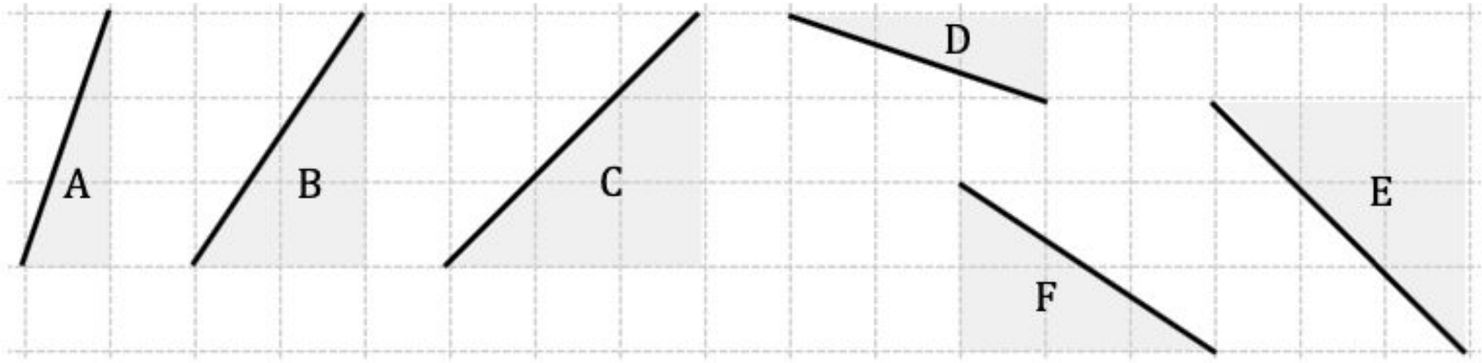
Explain how you compared their lengths.



Hint: **“D is longer than E as E is 2 along, but D is 2 up and 1 along”**

Independent task

1) Identify the triangles where the highlighted line segment is the same length



2) Decide which of the line segments connecting each pair of coordinates is longest:

a) (4,0) to (7,0) or (8,0) to (12,0)

b) (9,0) to (7,0) or (0,0) to (0,3)

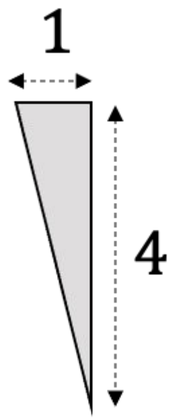
c) (4,2) to (9,2) or (−2,4) to (−2,8)

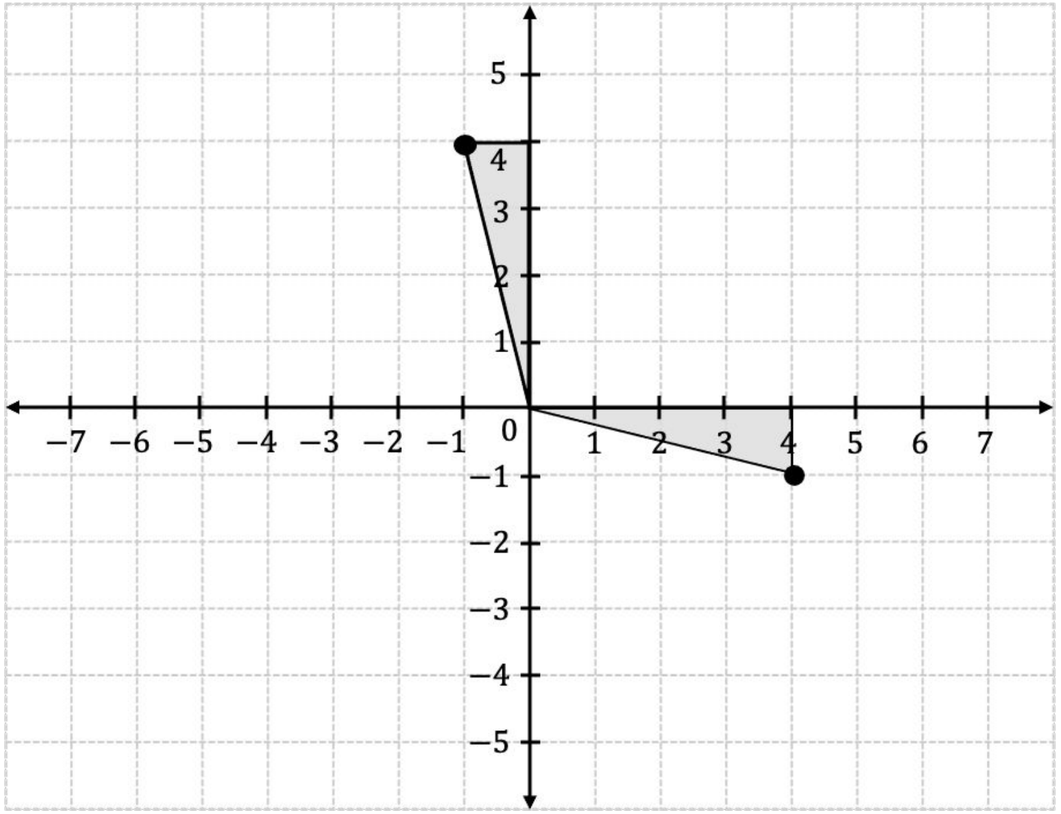
d) (−2,3) to (−4,3) or (7,−5) to (3,−5)

Explore

Tia used a triangle to find two points **equidistant** from the origin.

Find more examples using this triangle.





(−1,4) and (4,−1) are equidistant from (0,0).