Mathematics

Pythagoras's theorem
Pythagoras's theorem on the Cartesian plane
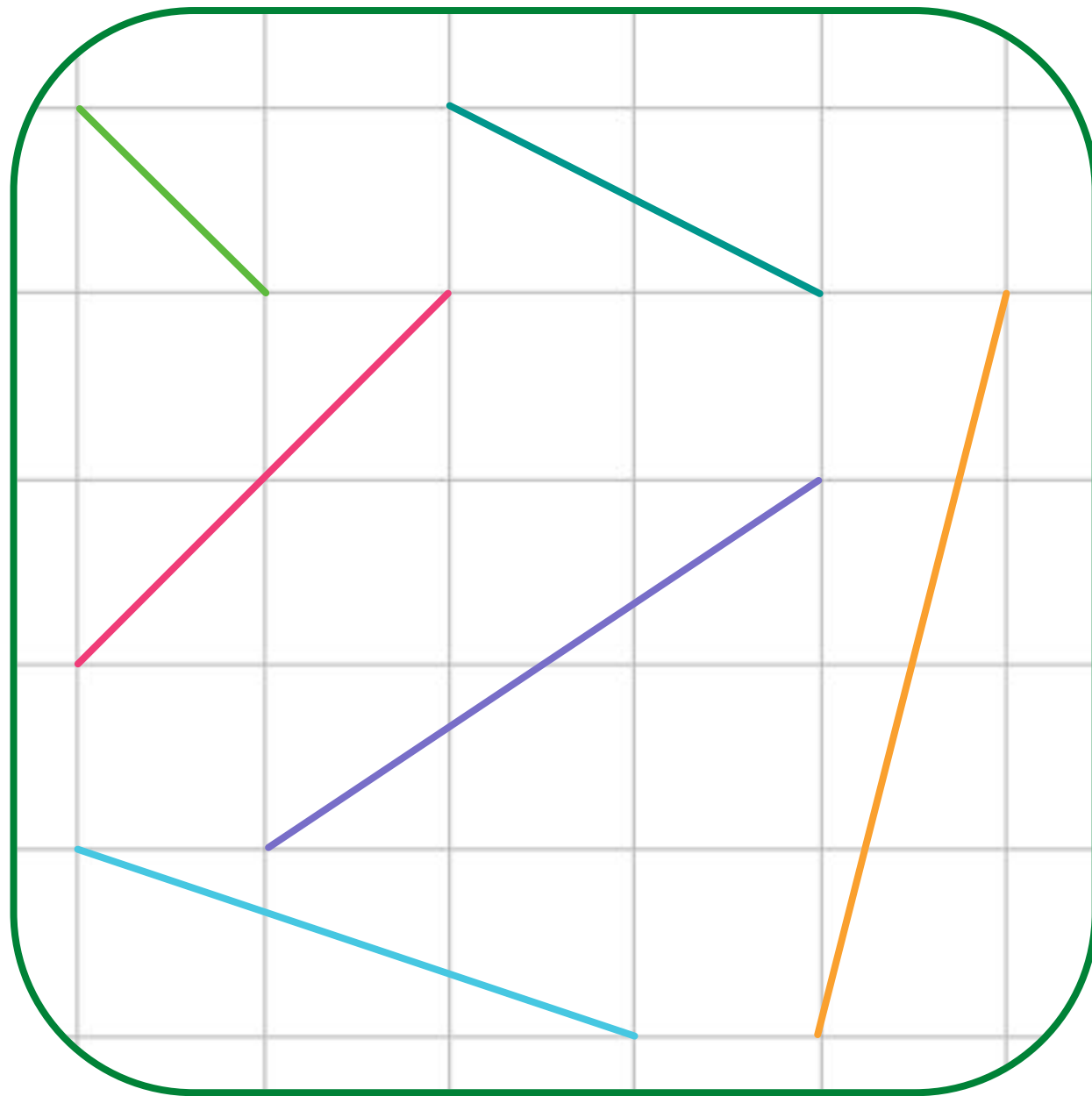# Lesson 8 of 8
Downloadable Resource

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Try this

Use Pythagoras's theorem to find the lengths of these lines, and sort them from shortest to longest.

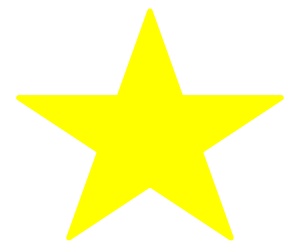Hint: You have done this in Lesson 3 when you looked at tilted squares.

Independent task

1) Find the distance between the points:

  (0, 3) and (3, 7)

  (1, 3) and (3, 7)
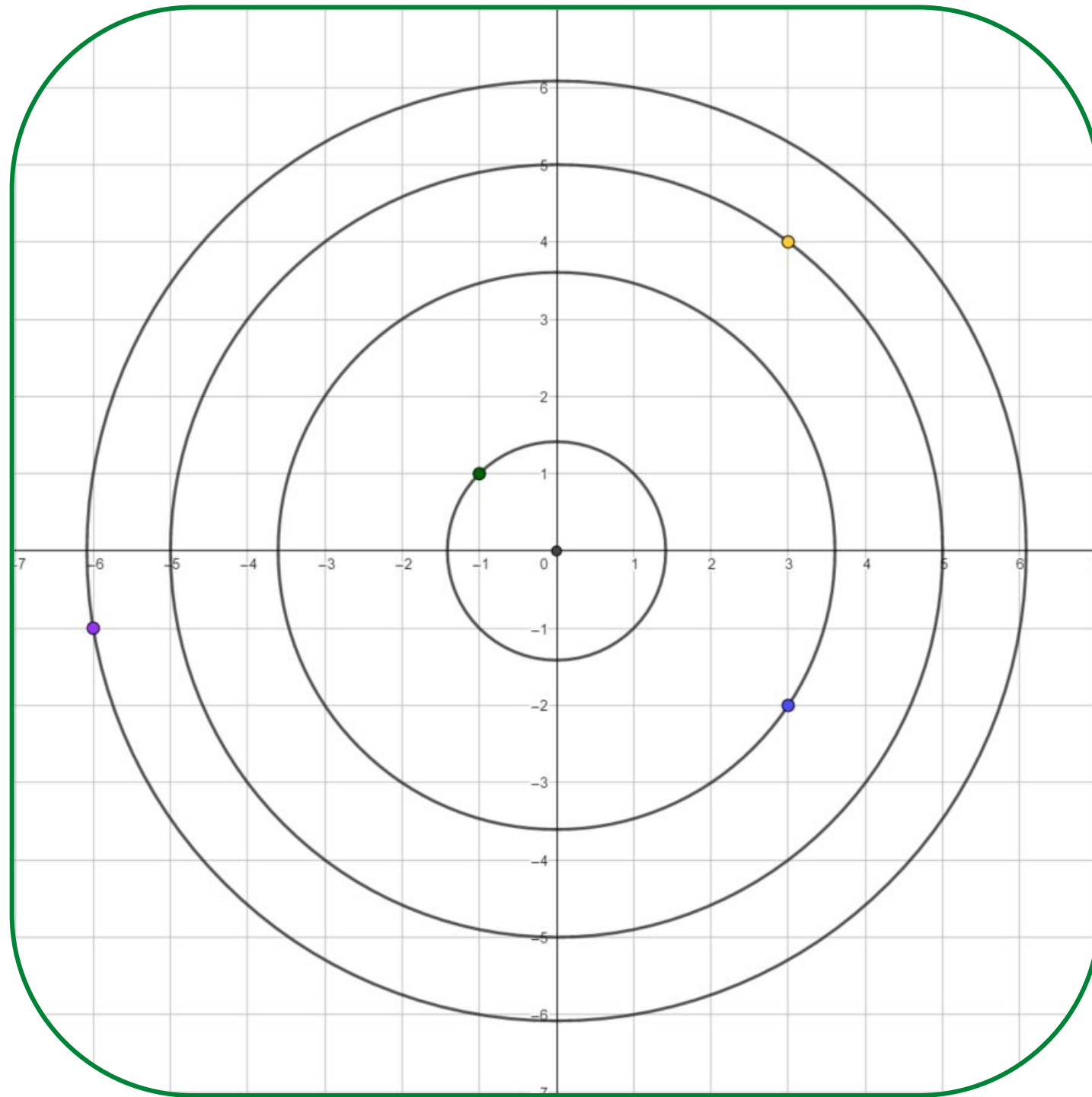
  (2, 3) and (3, 7)

Challenging question!

2) The distance between the points (7, 0) and (15, c) is 10 units.

Find the possible values of c.

Explore

Use the x and y axis to estimate the radius of these circles.

Can you accurately find the radius of the these circles from the marked coordinates?