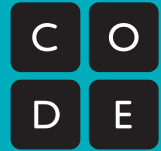
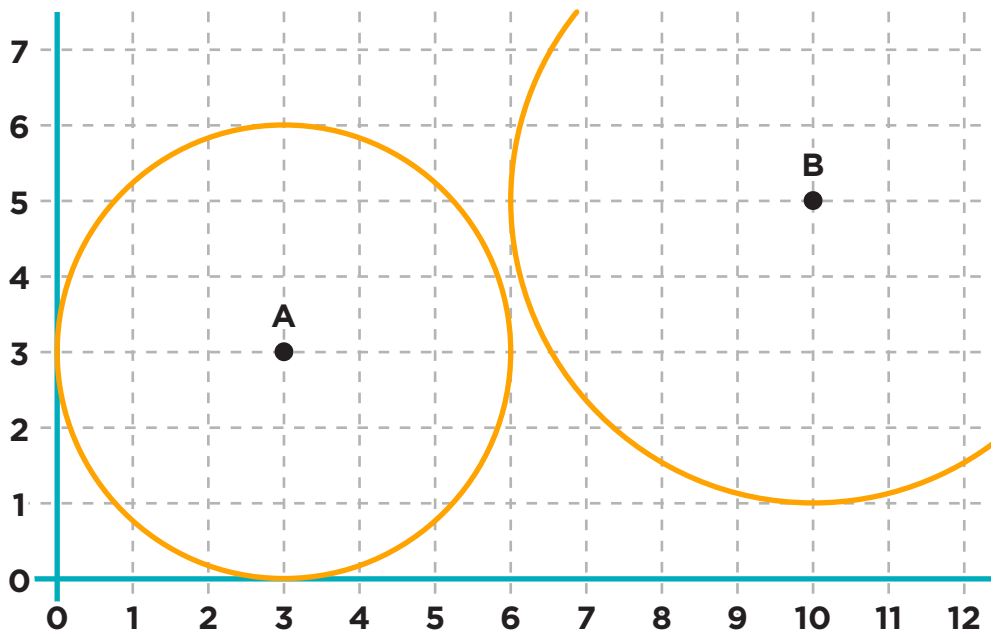


# Collision Detection

Code.org Computer Science in Algebra



## Graph #3

**On the graph:**

Draw a segment from point A to point B

Label segment AB as c

Draw a right triangle using segment c as the hypotenuse.

Label the right angle as C

Label segment AC as b

Label segment CB as a

1. What is the radius of circle A? \_\_\_\_\_

2. What is the radius of circle B? \_\_\_\_\_

3. What is Radius A + Radius B \_\_\_\_\_

4. Do the circles overlap? (true/false) \_\_\_\_\_

5. What is the length of side a? \_\_\_\_\_

6. What is the length of side b? \_\_\_\_\_

7. Estimate the length of side c? \_\_\_\_\_

8. What is  $a^2 + b^2$  \_\_\_\_\_