Collision Detection
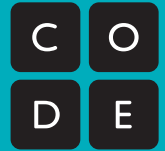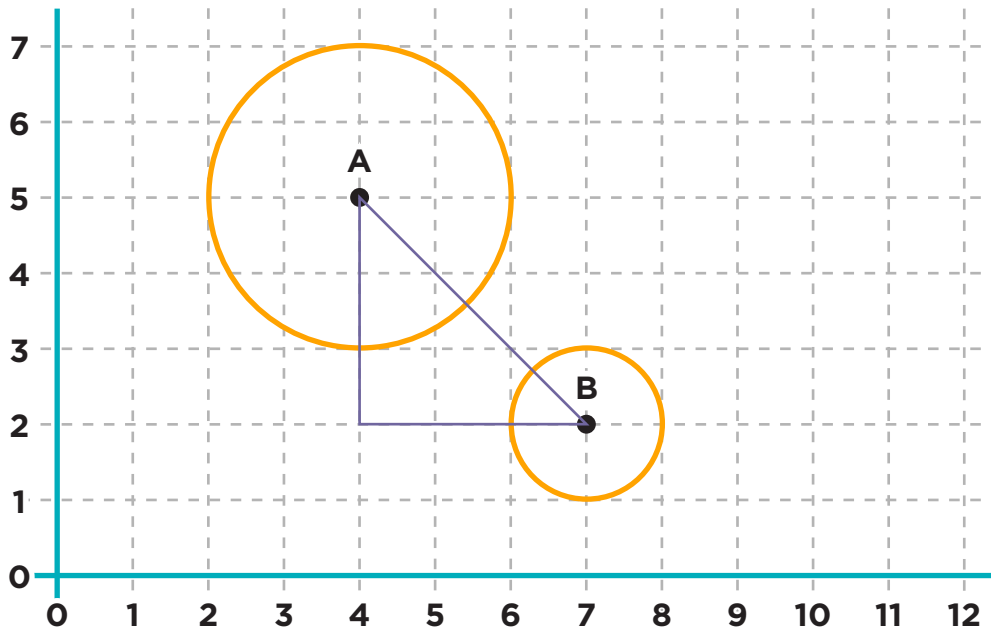### Code.org Computer Science in Algebra

C O
D E

Graph #1

On the graph:

Label the right angle as C
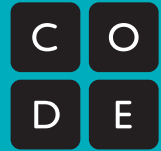
Label segment AB as c
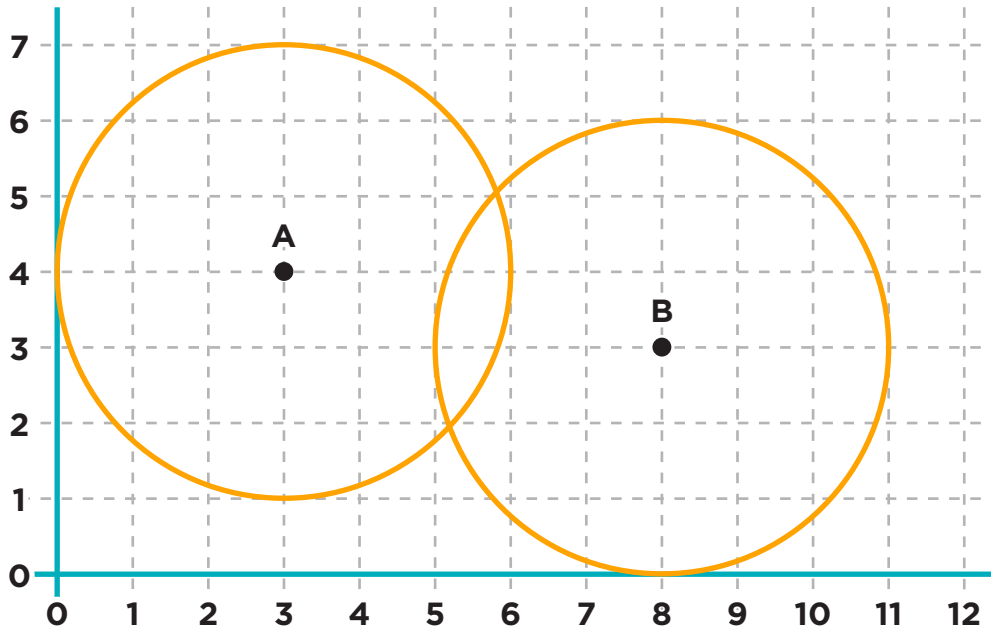
Label segment AC as b

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 $a^2 + b^2$ _____

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C O
D E

Graph #2

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.
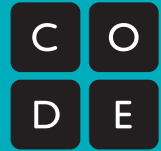
Label the right angle as C

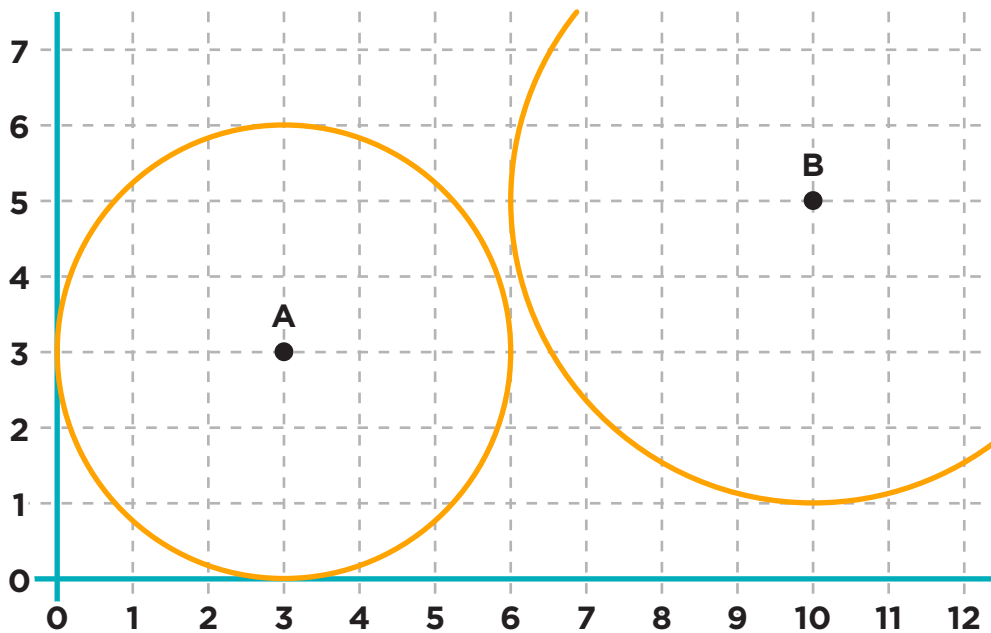Label segment AC as b

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 $a^2 + b^2$ _____

Collision Detection
Code.org Computer Science in Algebra

C O
D E

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 $a^2 + b^2$ _____