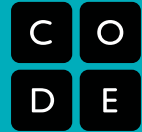
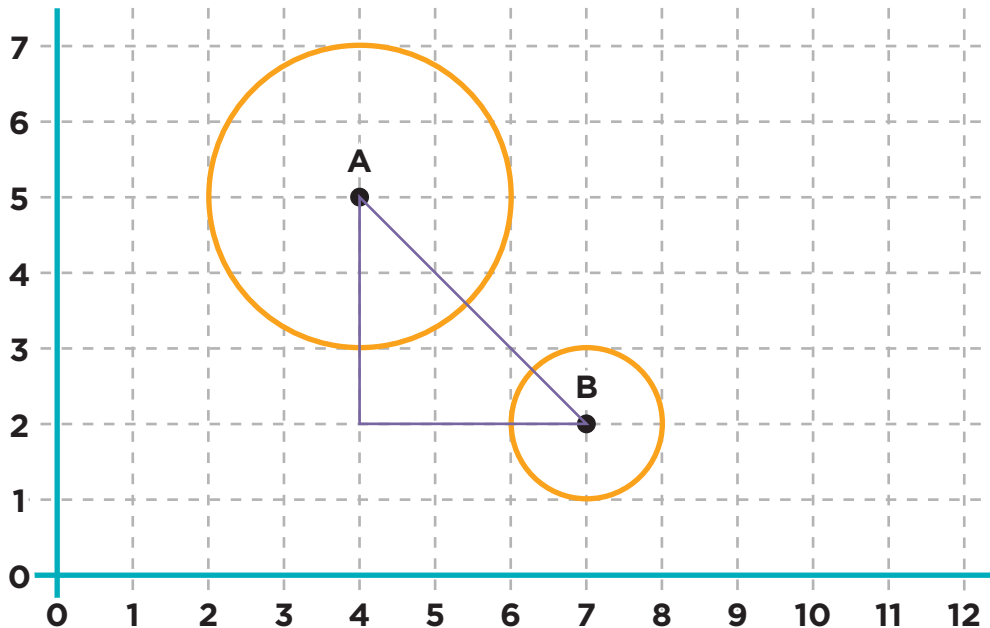


Collision Detection



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Graph #1

**On the graph:**

Label the right angle as C

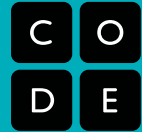
Label segment AB as c

Label segment AC as b

Label segment CB as a

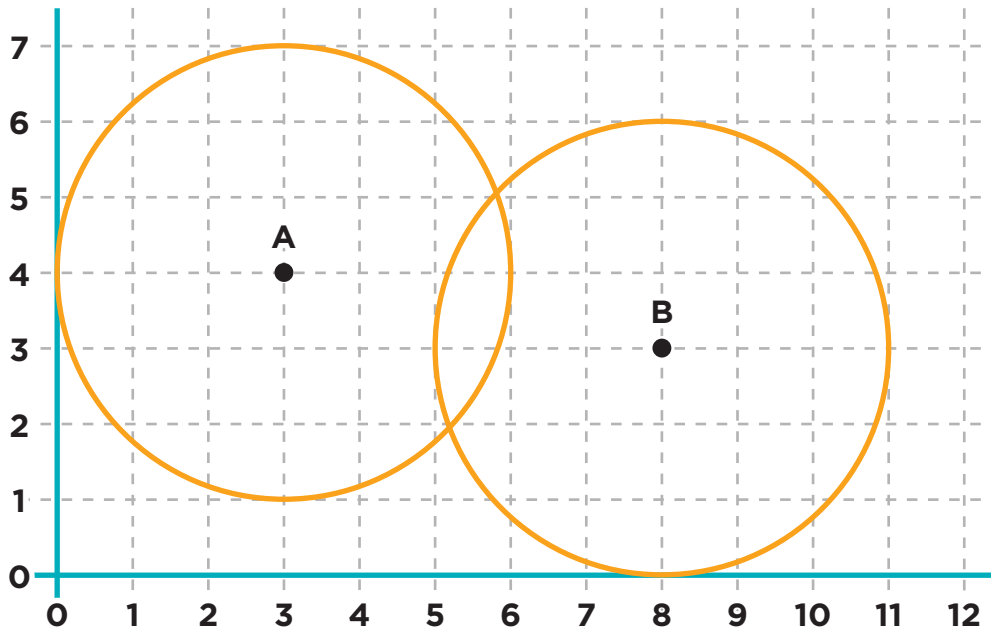
1. What is the radius of circle A? _____
2. What is the radius of circle B? _____
3. What is Radius A + Radius B _____
4. Do the circles overlap? (true/false) _____
5. What is the length of side a? _____
6. What is the length of side b? _____
7. Estimate the length of side c? _____
8. What is $a^2 + b^2$ _____

Collision Detection



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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.

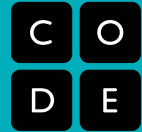
Label the right angle as C

Label segment AC as b

Label segment CB as a

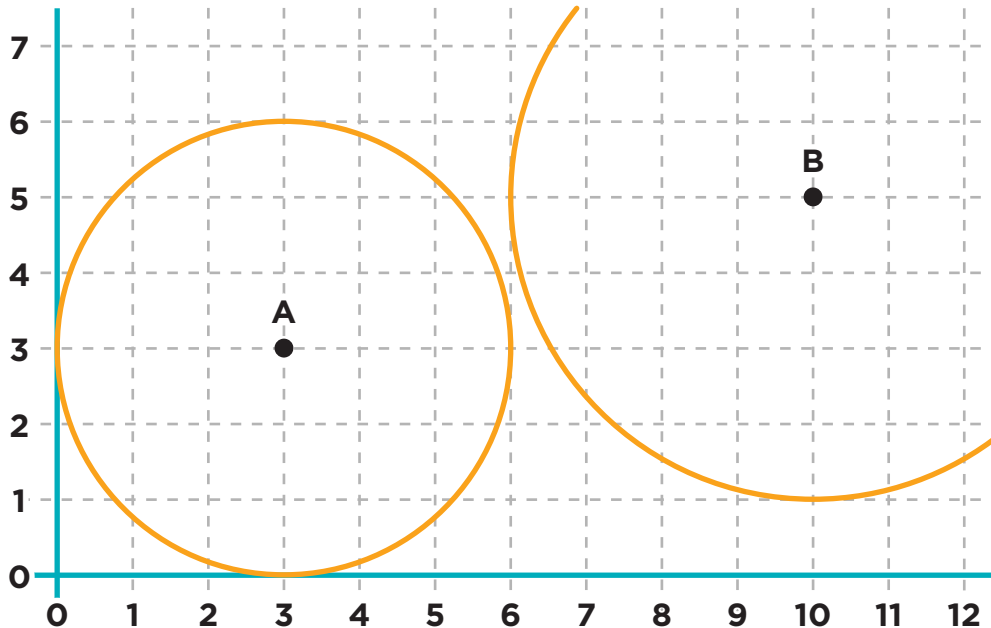
1. What is the radius of circle A? _____
2. What is the radius of circle B? _____
3. What is Radius A + Radius B _____
4. Do the circles overlap? (true/false) _____
5. What is the length of side a ? _____
6. What is the length of side b ? _____
7. Estimate the length of side c ? _____
8. What is $a^2 + b^2$ _____

Collision Detection



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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 $a^2 + b^2$ _____