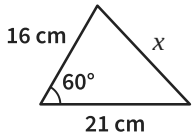
The cosine rule: finding a side

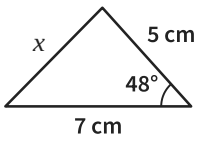
Exit ticket ANSWERS Name _____

1 Find the length x.



x = 19 cm

2 Find the length x.
Give your answer to 1 decimal place.



x = 5.2 cm

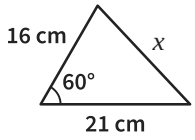
3 Two sides of a triangle are 4 cm and 9 cm.
The angle between them is 115°. Find the third side.
Give your answer to 1 decimal place.

11.3 cm

The cosine rule: finding a side

Exit ticket ANSWERS Name _____

1 Find the length x.



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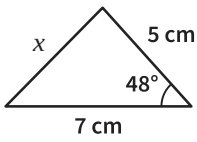

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11.3 cm

The Maths Habit

The cosine rule: finding a side

Exit ticket ANSWERS Name _____

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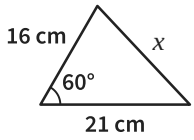

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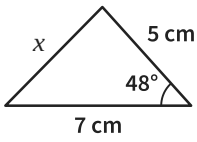

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The cosine rule: finding a side

Exit ticket ANSWERS Name _____

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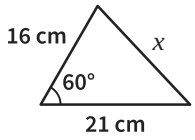

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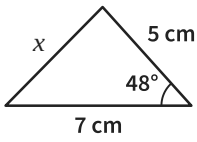

x = 5.2 cm

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The angle between them is 115°. Find the third side.
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11.3 cm

The Maths Habit

The cosine rule: finding a side

Exit ticket ANSWERS Name _____

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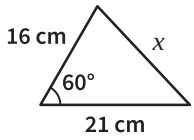

x = 19 cm

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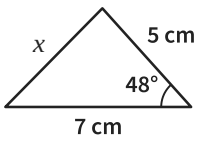
Give your answer to 1 decimal place.



x = 5.2 cm

3 Two sides of a triangle are 4 cm and 9 cm.
The angle between them is 115°. Find the third side.
Give your answer to 1 decimal place.

11.3 cm

The cosine rule: finding a side

Exit ticket ANSWERS Name _____

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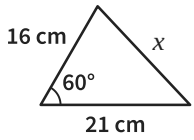

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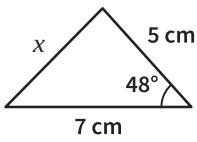


x = 5.2 cm

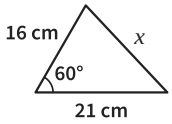
3 Two sides of a triangle are 4 cm and 9 cm.
The angle between them is 115°. Find the third side.
Give your answer to 1 decimal place.

11.3 cm

The Maths Habit

Exit ticket The cosine rule: finding a side

1 **Find the length x.**



X = 19 cm

TESTS Two sides and the angle between them, 60°

LOOK FOR
- *26.4 cm* used Pythagoras: the angle is not 90°
- *32.1 cm* added 2bc cos A instead of subtracting

FIX IT

Two sides of a triangle are 7 cm and 8 cm.
The angle between them is 120°. Find the third side. *13 cm*

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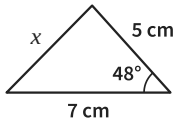
2 **Find the length x. Give your answer to 1 decimal place.**



X = 5.2 cm

TESTS Any angle, to 1 decimal place

LOOK FOR
- *1.6 cm* subtracted 2 × 5 × 7 before multiplying by cos 48°
- *8.6 cm* used Pythagoras

FIX IT

Two sides of a triangle are 6 cm and 9 cm.
The angle between them is 35°. Find the third side to 1 dp. *5.3 cm*

---

3 **Two sides of a triangle are 4 cm and 9 cm. The angle between them is 115°. Find the third side. Give your answer to 1 decimal place.**

11.3 cm

TESTS An obtuse angle: cos is negative

LOOK FOR
- *8.2 cm* lost the minus sign of cos 115°: the side opposite an obtuse angle is longer
- *9.8 cm* used Pythagoras

FIX IT

Two sides of a triangle are 3 cm and 10 cm. The angle between them is 145°. Find the third side to 1 dp. *12.6 cm*