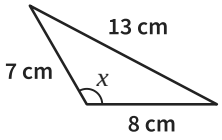
# The cosine rule

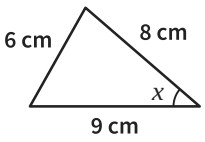
Exit ticket ANSWERS Name _____

**1** Find angle $x$.




$x =$ 120°

**2** Find angle $x$. Give your answer to 1 decimal place.




$x =$ 40.8°

**3** A triangle has sides of 6 cm, 7 cm and 10 cm. Find its largest angle. Give your answer to 1 decimal place.

100.3°

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13 cm, 7 cm, x, 8 cm

$x =$ 120°

2 Find angle $x$. Give your answer to 1 decimal place.

6 cm, 8 cm, x, 9 cm

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The Maths Habit



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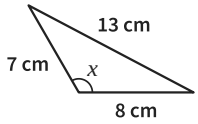
# *Exit ticket* The cosine rule



**1** **Find angle $x$.**

$x = 120°$




**TESTS** An angle from three sides: $\cos x = -0.5$

**LOOK FOR** $-0.5$ stopped at $\cos x$: use $\cos^{-1}$

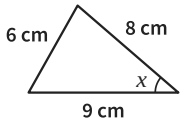
$60°$ lost the minus sign: $\cos^{-1}(-0.5)$ is 120°

**FIX IT**

A triangle has sides of 3 cm, 7 cm and 8 cm. Find the angle opposite the 7 cm side. $60°$

**2** **Find angle $x$. Give your answer to 1 decimal place.**

$x = 40.8°$




**TESTS** An angle to 1 decimal place: a is the side opposite

**LOOK FOR** $78.6°$ used 9 cm as a: that is the angle opposite 9 cm

$0.7569$ stopped at $\cos x$

**FIX IT**

A triangle has sides of 5 cm, 7 cm and 9 cm.
Find the angle opposite the 7 cm side to 1 dp. $50.7°$

**3** **A triangle has sides of 6 cm, 7 cm and 10 cm. Find its largest angle. Give your answer to 1 decimal place.**

$100.3°$

**TESTS** The largest angle is opposite the longest side

**LOOK FOR** $36.2°$ the smallest angle, opposite 6 cm

$79.7°$ $a^2 - b^2 - c^2$ on the numerator: the signs turned round

**FIX IT**

A triangle has sides of 4 cm, 7 cm and 9 cm. Find its largest angle to 1 dp. $106.6°$