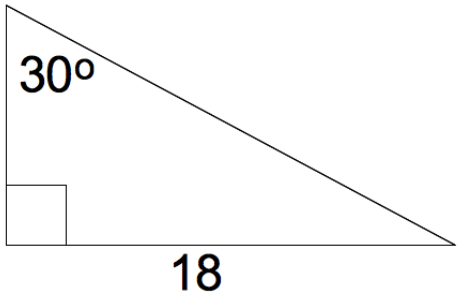
Questions?

Are you Ready?

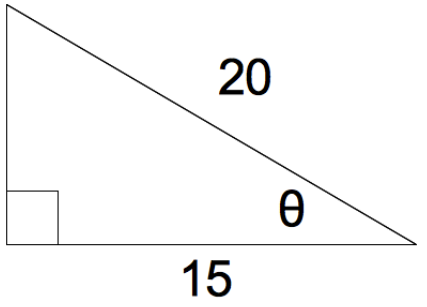
January 7, 2020

Find the missing sides and angles of these triangles

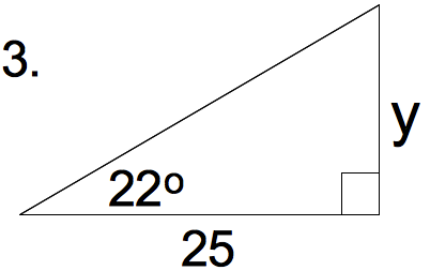
1.



2.



3.



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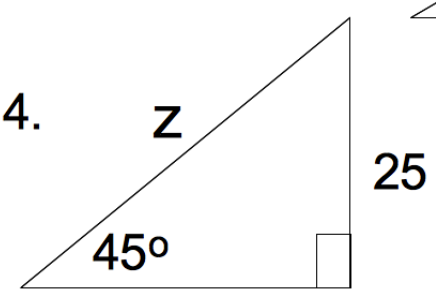
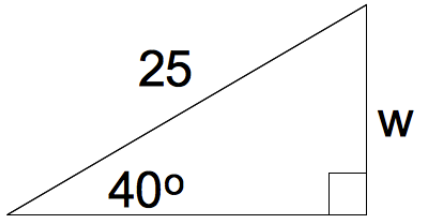


5.



5.3.1 & 5.3.2 & 5.3.3

IC 5-61 to 5-65 & 5-73 to 5-77 & 5-85 to 5-87

HW 5-76d, 5-77, 5-86 & 5-79 to 5-84

What does it mean to "solve a triangle"?

Solving triangles, so far.

You should be able to:

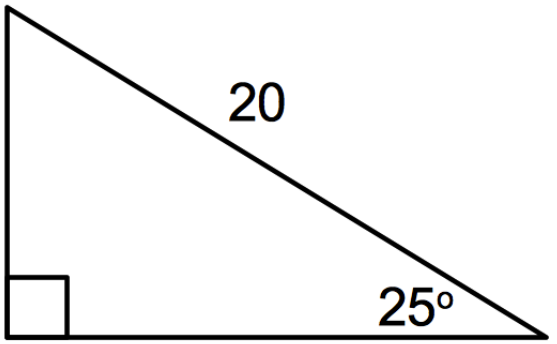
1. Use tan, sin, or cos to solve right triangles and some non-right triangles.

2. Recognize and solve 45-45-90 and 30-60-90 triangles.

3. Recognize and use Pythagorean triples.

January 7, 2020

1. Solve this triangle.



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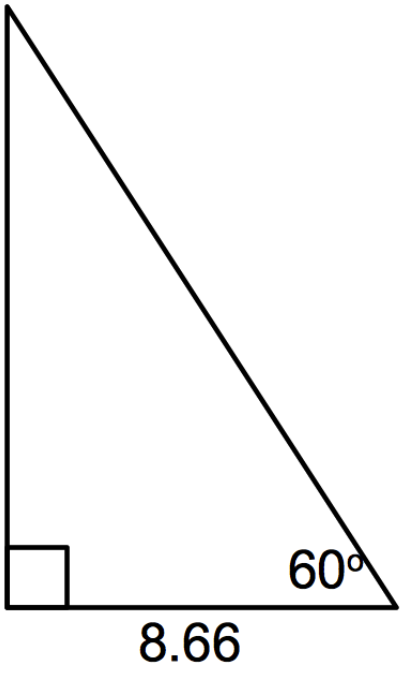
2. Solve this triangle.



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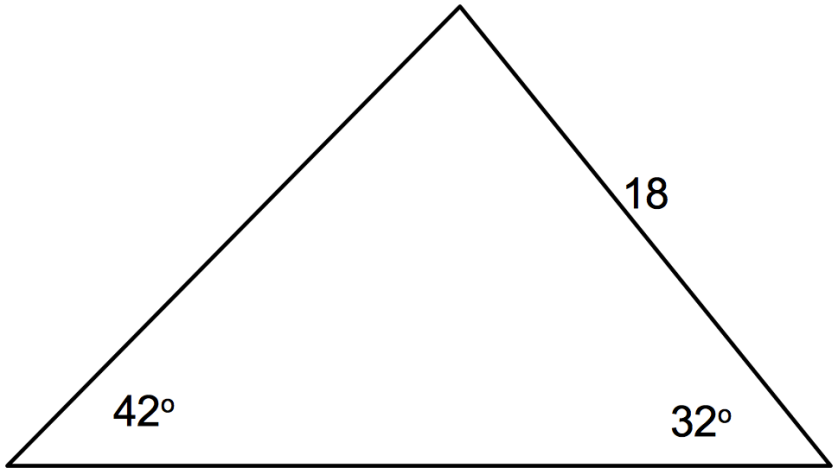
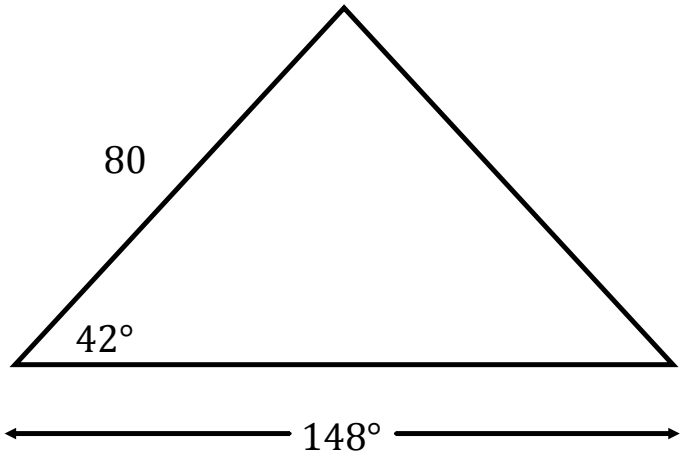
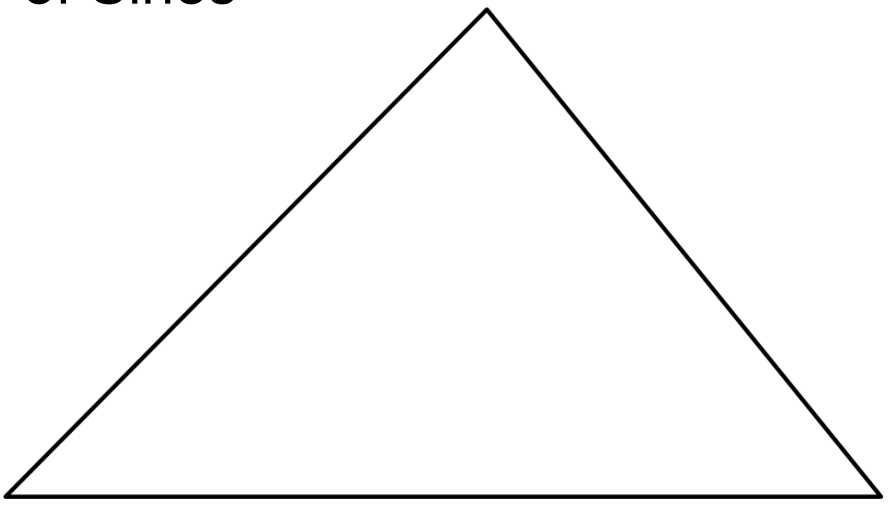
Solve this triangle.




80
42°
148°

Law of Sines



$$\frac{\sin(A)}{a} = \frac{\sin(B)}{b} = \frac{\sin(C)}{c}$$

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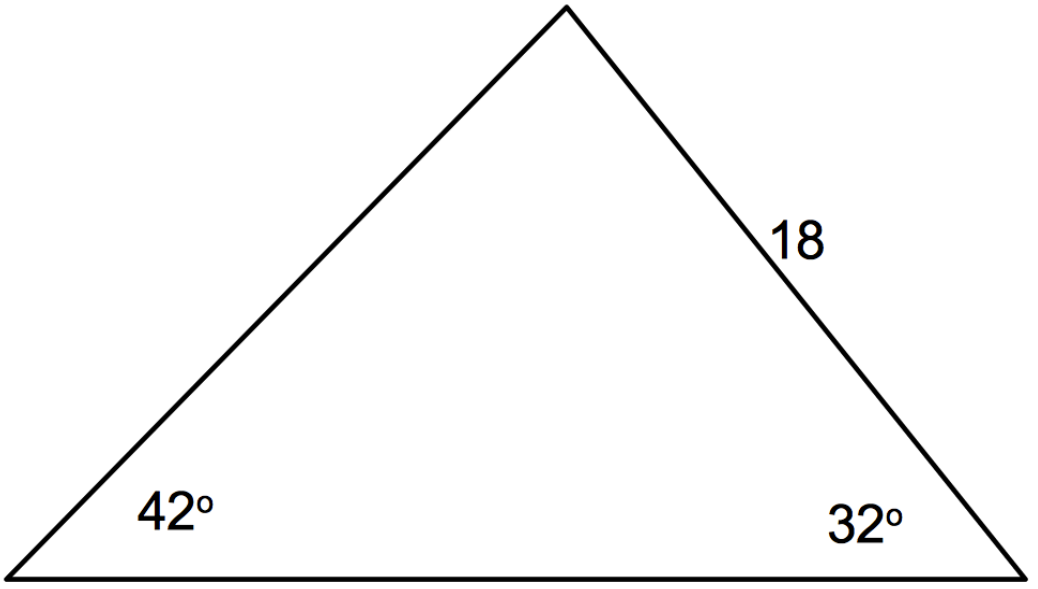
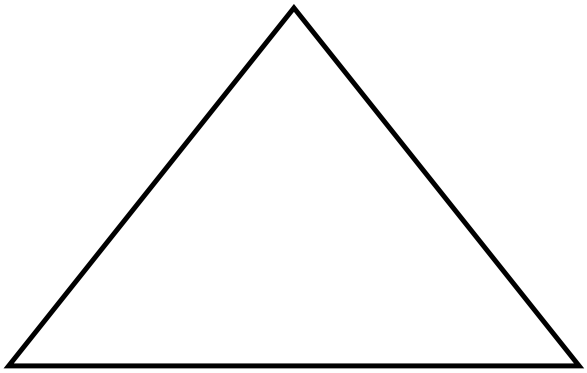
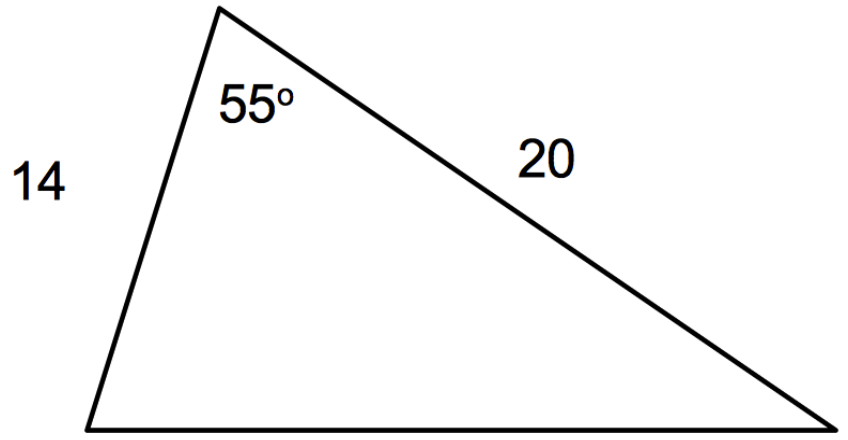
Solve this triangle.



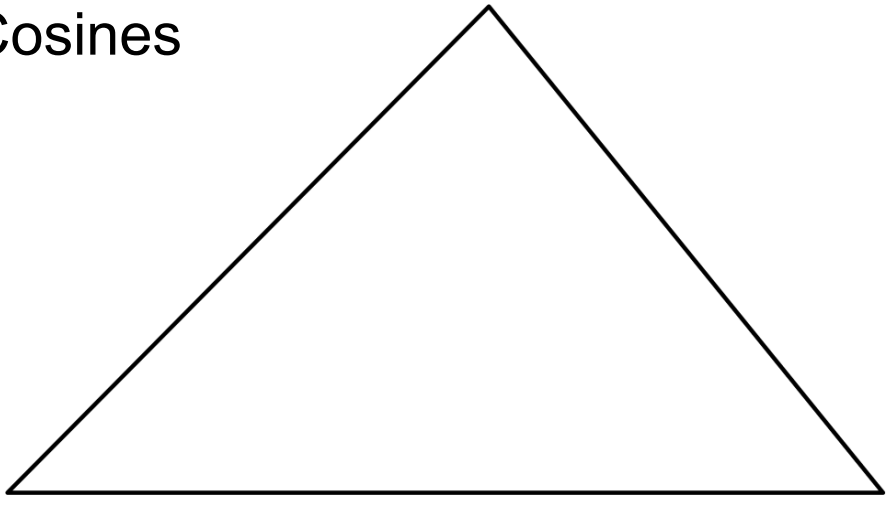
More?



How about solving this triangle?

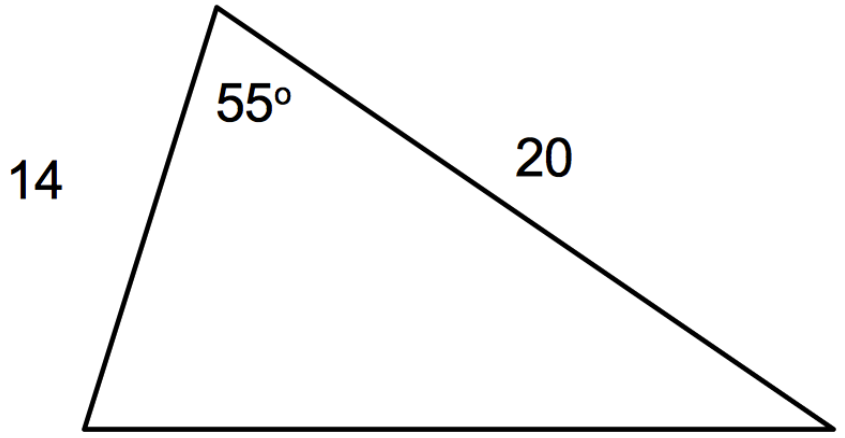


Law of Cosines

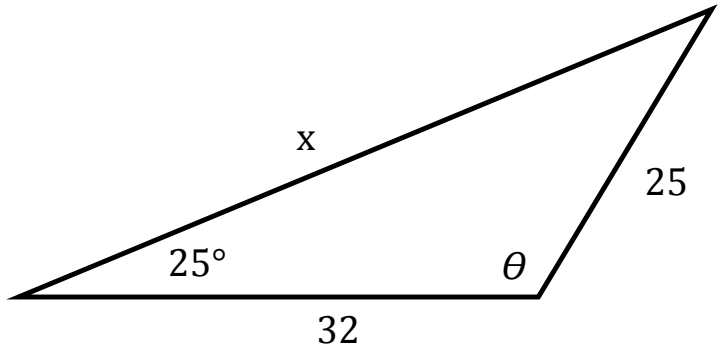


$$a^2 = b^2 + c^2 - 2bcCos(A)$$

How about solving this triangle?



Find x and θ.

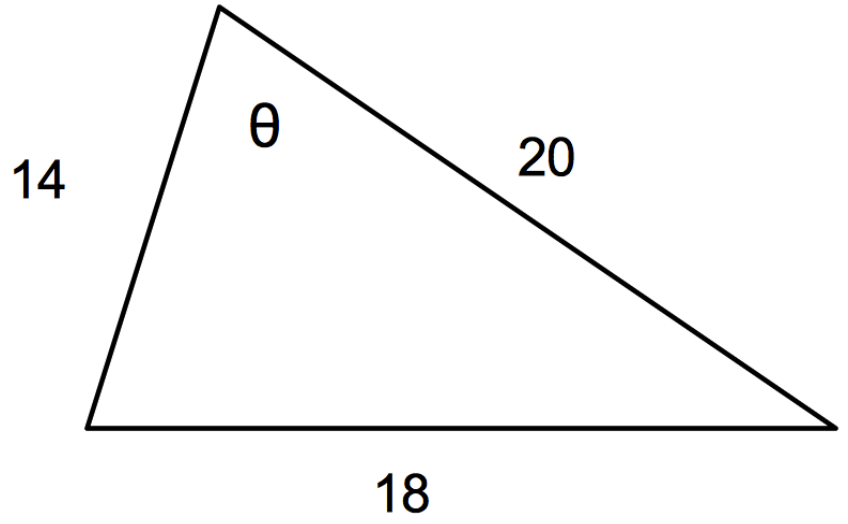


NOTE:

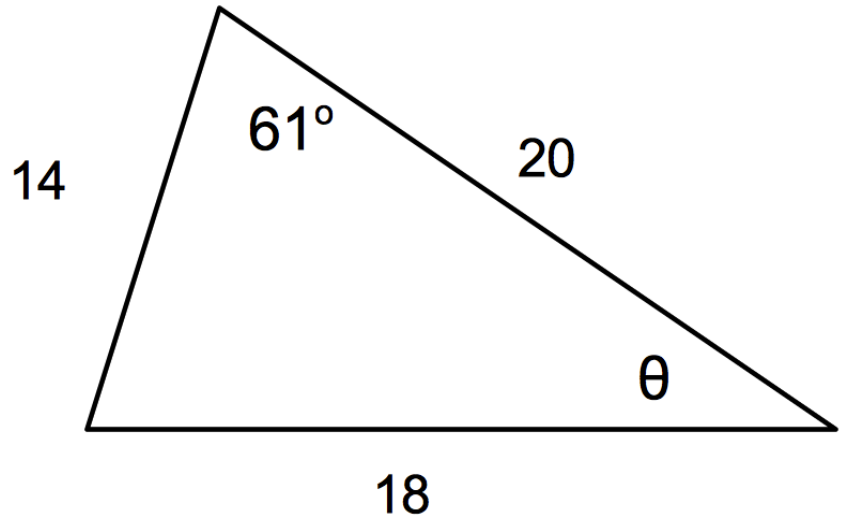
Law of sines is for AAS or ASA triangles.

Law of cosines is for SAS triangles.

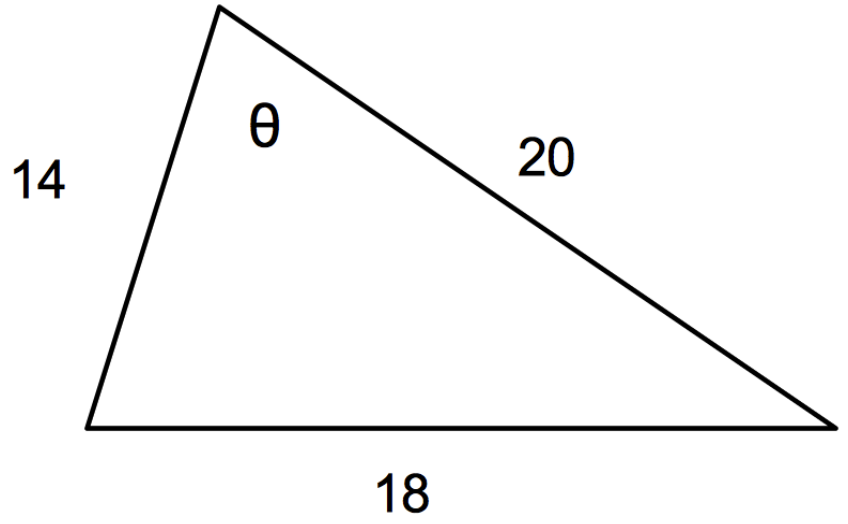
Find the missing angle.
(Hint: It's a SAS triangle)



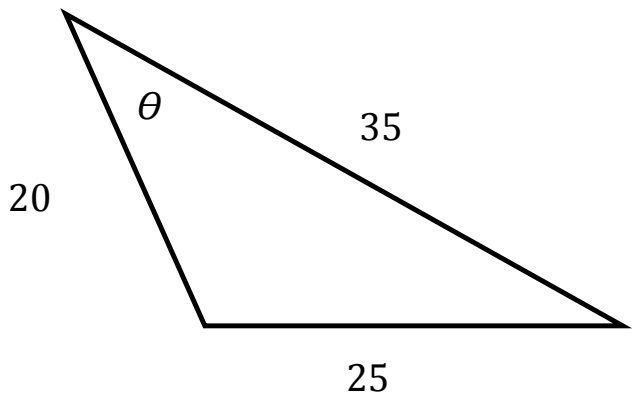
Find the new missing angle.



Find the missing angle.
(Hint: It's a SAS triangle)



Find θ



More?

HW 5-76d, 5-77, 5-86 & 5-79 to 5-84

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