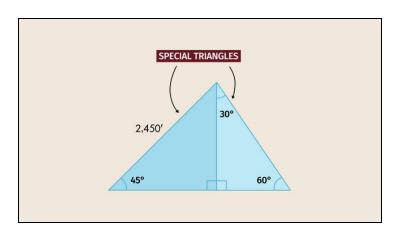
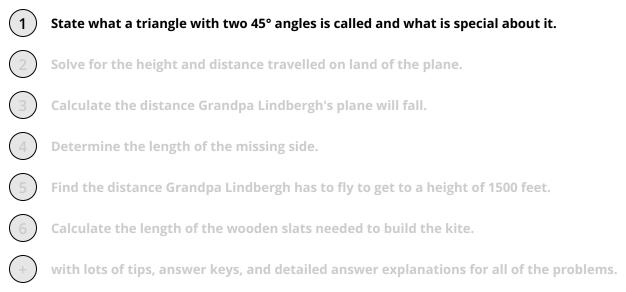
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Special Triangles





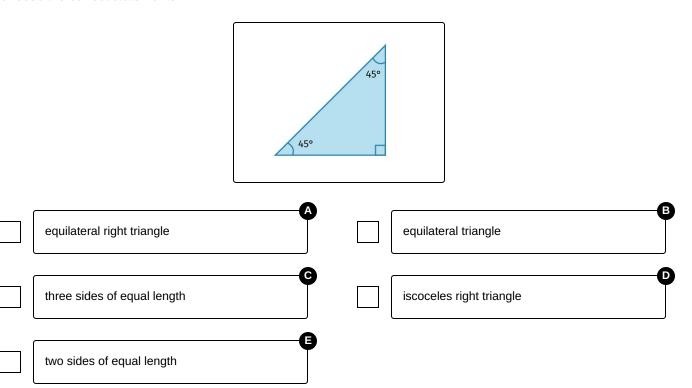


The complete package, **including all problems**, **hints**, **answers**, **and detailed answer explanations** is available for all sofatutor.com subscribers.



State what a triangle with two 45° angles is called and what is special about it.

Choose the correct statements.



Hints for solving these problems



State what a triangle with two 45° angles is called and what is special about it.

Hint #1

All angles of an equilateral triangle are equal.

Hint #2

The sum of all the angles of any triangle is always 180°.

Hint #3

The opposite legs of equal angles have equal lengths.

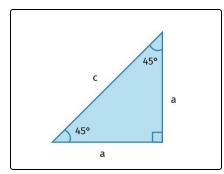


Answers and detailed answer explanations for these problems



State what a triangle with two 45° angles is called and what is special about it.

Answer key: D, E



Any triangle with two 45° angles is an iscoceles right triangle.

We can see this in the following way:

- The sum of the three angles of any triangle is always 180°.
- Thus, if two angles are 45°, the last angle must be $180^{\circ}-(45^{\circ}+45^{\circ})=90^{\circ}$
- Also, the triangle legs opposite to the 45° angles have equal lengths.