

Rewrite the true statement in two if-then form statements. Then, combine them using if and only if to form a biconditional statement. Lastly, state whether the biconditional statement is true or false. **i F**F Conditioned be Two angles are supplementary if their sum is 180°. 1. (Birondition r->0 rue br False: (ounterexample 2. An angle that measures 30° is an acute angle. Fond: If angle measures 30°, then it is acute V (ONVENSE: If it acute, then its angle) neapoirs 30° X (1) Bil: An angle mennes 30° iff it is OT MAINK more

Cond	えうの				C	s, creating	
1. If the	sum of th	e measu	ires of th	e interior	angles is	180°,	r R a
then	14	15 0	7 1	lang	<u>v</u>	P	
(what k	ind of poly	rgon is it:	?) 🛃			' î	< )
	sum of tw		•	in a trian <u></u> 5 90°	gle is 90°,	then	X
(what is	s the meas	urement	t of the th	nird angle	?)		$\sum$
3. If two	side-leng	ths of a	triangle a	are congru	uent, then	L X	·
0	nones	are	con	mmt	: Ts	osceie	s trian
(what d	o we knov	v about t	wo of the	angles?	or, what k	kind of tria	ngle is it?
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## Is the biconditional statement of these conditional statements true?

1. If the sum of the measures of the interior angles is 180°,

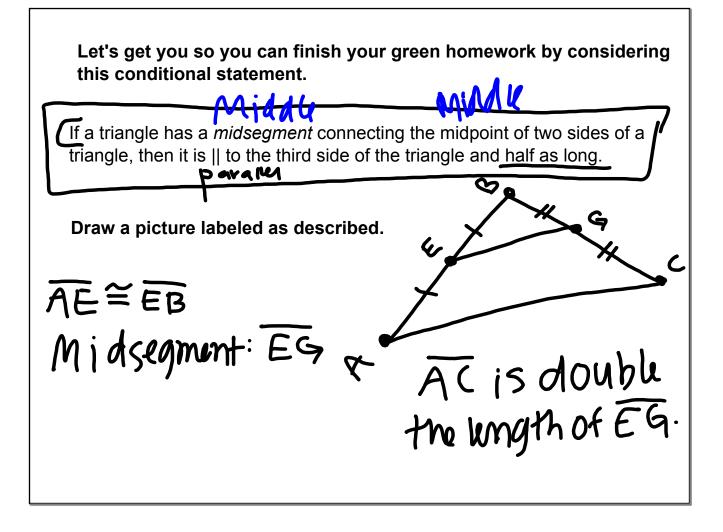
then it is a triangle.

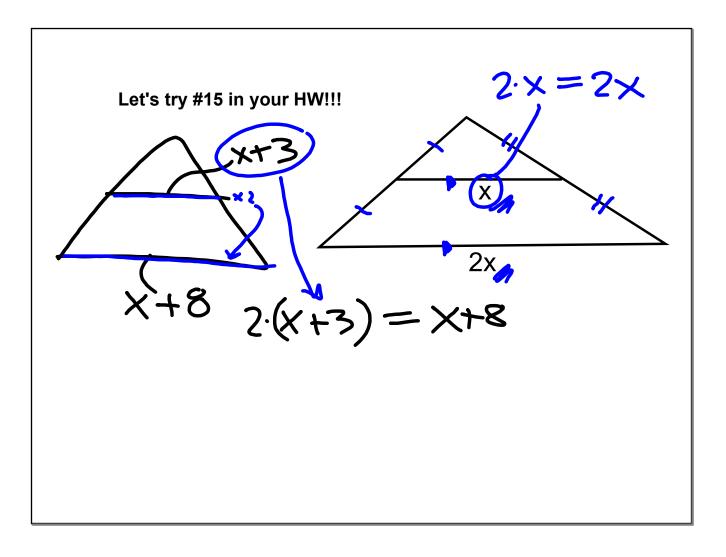
2. If the sum of two interior angles in a triangle is 90°, then **the third angle measures 90°** 

3. If two side-lengths of a triangle are congruent, then **two angles are congruent.** 

(or)

3. If two side-lengths of a triangle are congruent, then **it is an isosceles triangle.** 





## Decide if the statements are True or False. If False, give a counterexample.

- 1. All living things need water.
- 2. Everyone in movies can act.
- 3. No new computer has a floppy disk drive.
- 4. Everyone has an Instagram.