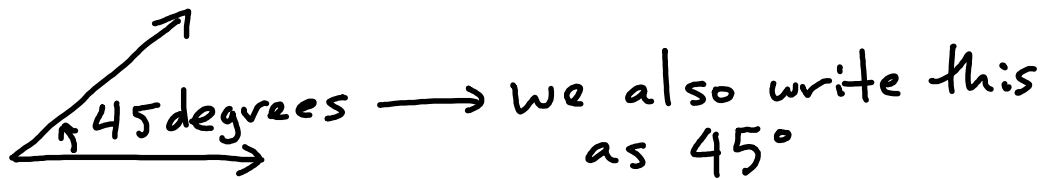
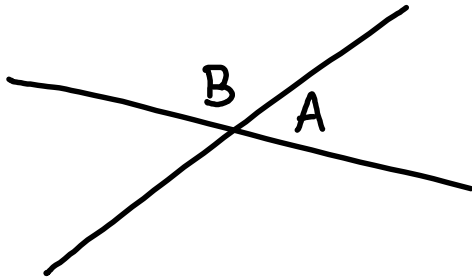


ANGLES

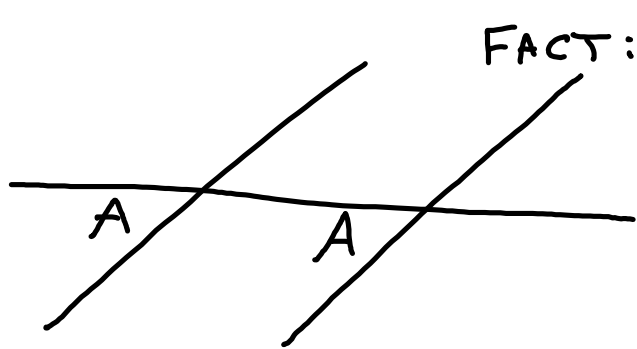
An ANGLE is a measure of how much something is rotated or turned relative to something else.



Whenever two lines intersect, there are two different angles:

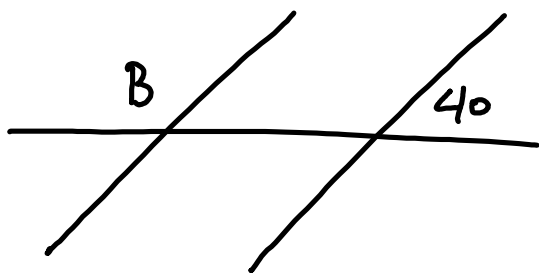


What do angles A and B add up to?

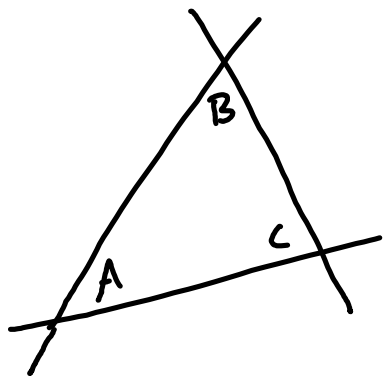


FACT: Parallel lines make the same angle with another line.

Question: what is the angle B?

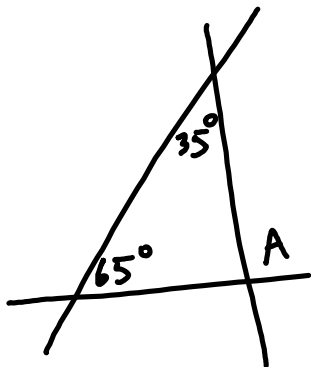


FACT: Angles in a triangle always add up to 180° :

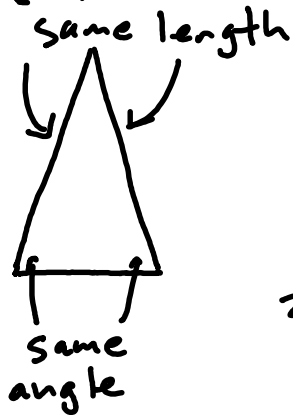


$$A + B + C = 180^\circ$$

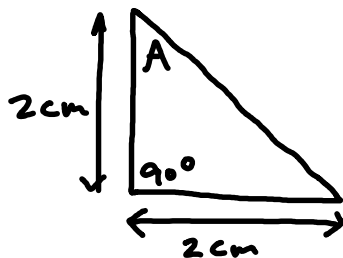
Question: What is the angle A?



FACT: In an ISOCELES triangle (where 2 sides are the same length), there are two angles that are the same.

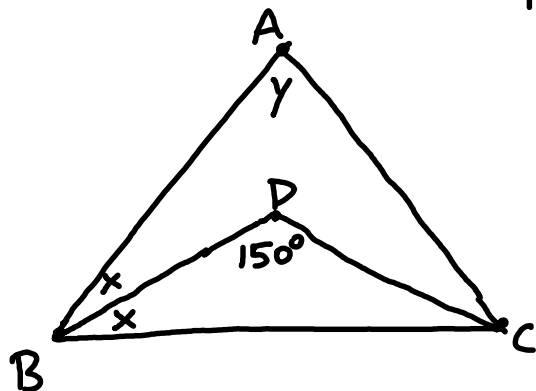


Question: What is the angle A?

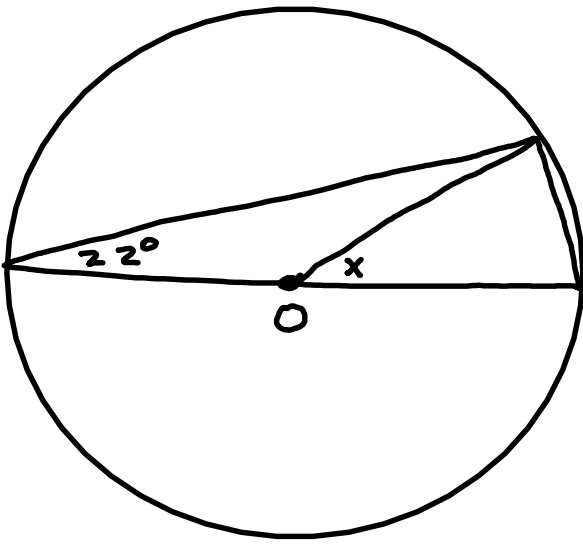


Harder

Question: In the picture, length AB and AC are the same, and length BD and DC are the same.



Also, the two angles marked x are the same. What is the angle y?



Question: the point O is the center of the circle. What is the angle x ?

If you are done, ask me for a BONUS question!