

Angles on a straight line : <https://www.youtube.com/watch?v=cBIJmmz8fll>

1. True or false?

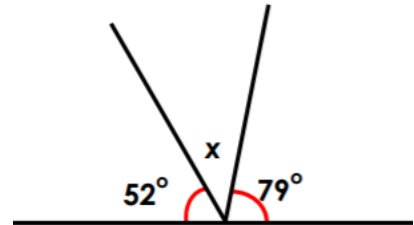
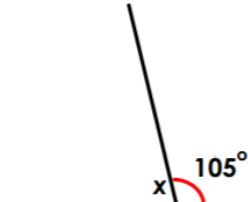
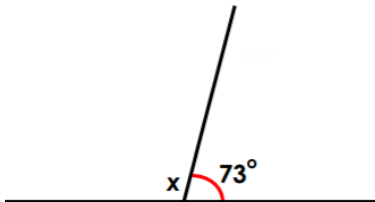
$$93^{\circ} + 97^{\circ} = 180^{\circ}$$

$$31^{\circ} + 149^{\circ} = 180^{\circ}$$

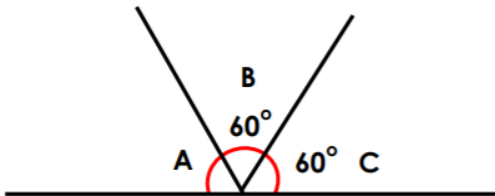
a.

b.

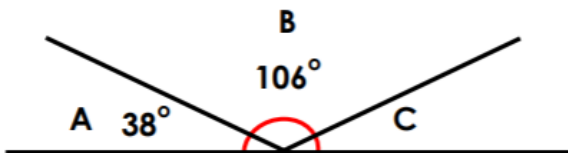
2. Calculate the missing angle



3. Jim says that angle A is the same as angle B and C. Do you agree? Explain your answer.



4. Jen says that angle C is the same as angle A. Do you agree? Explain your answer.



5. a. Tyler is measuring angles on a straight line.
He says:



There are three angles on the line. One is 110° , one is 10° and the other is 60° .

Could he be right?
Explain how you know.

- a. Isabelle is measuring angles on a straight line.
She says:

There are three angles on the line. One is 100° , one is 30° and the other is 55° .



Could she be right?
Explain how you know.

ANSWERS

1a. False as $93^\circ + 97^\circ = 190^\circ$

1b. True

2a. 107°

2b. 75°

2c. 49°

3 Jim is correct as $60^\circ + 60^\circ = 120^\circ$. $180^\circ - 120^\circ = 60^\circ$ which is the same as angle B and C.

4. Jen is incorrect as $106^\circ + 38^\circ = 144^\circ$. $180^\circ - 144^\circ = 36^\circ$ which is different to angle A at 38° .

5a. Tyler could be right as his angles total 180°

5b. Isabelle cannot be right as her angles total 185° .