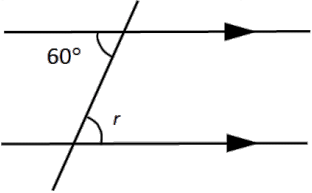# Calculating angles II

This task is about angle properties with lines.

Calculate the angles in the following diagrams and give a reason for your answer.

Lines marked ——▸—— are parallel.

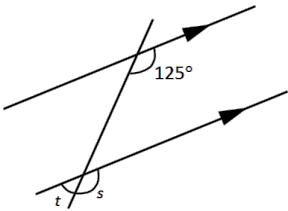a) Calculate the size of the angle marked *r* and give a reason for your answer.

60°

r

[Not drawn to scale]

$r =$ ⬚ °

Reason:

b) Calculate the size of the angles marked *s* and *t* and give a reason for each answer.
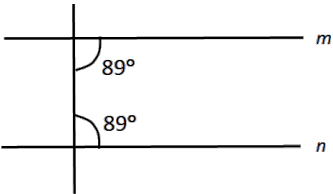

125°

t   *s*

[Not drawn to scale]

$s =$ ⬚ °

Reason:

$t =$ ⬚ °

Reason:

c)

m

89°

89°

n

[Not drawn to scale]

Are the lines marked *m* and *n* parallel?   *Yes / No*

Give a reason for your answer: