

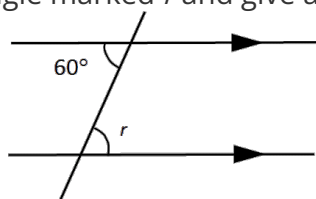
## Calculating angles II

**This task is about angle properties with lines.**

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

Lines marked  $\longrightarrow$  are parallel.

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

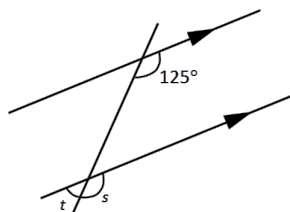


[Not drawn to scale]

$r =$    $^{\circ}$

Reason:

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



[Not drawn to scale]

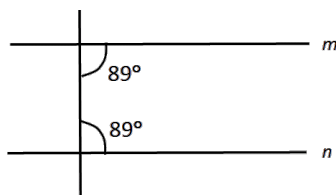
$s =$    $^{\circ}$

Reason:

$t =$    $^{\circ}$

Reason:

c)



[Not drawn to scale]

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

Give a reason for your answer: