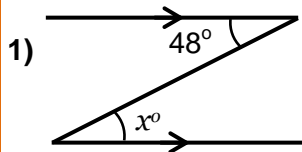


# Angles on Parallel Lines (A)

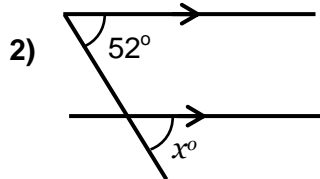
## ANSWERS



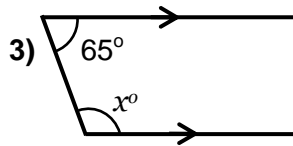
**Section A:** State the missing angle and give a reason for your answer.



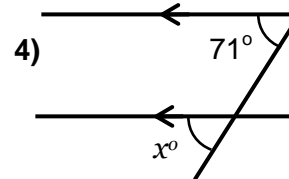
Angle  $x$ :  $48^\circ$   
Reason: Alternate angle



Angle  $x$ :  $52^\circ$   
Reason: Corresponding angle

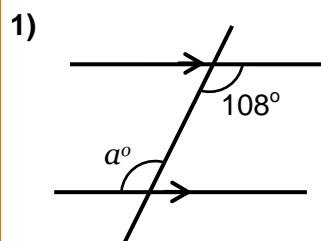


Angle  $x$ :  $115^\circ$   
Reason: Interior angle

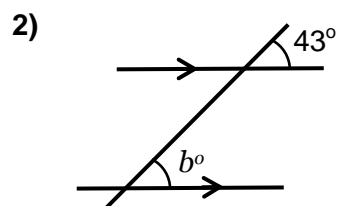


Angle  $x$ :  $71^\circ$   
Reason: Corresponding angle

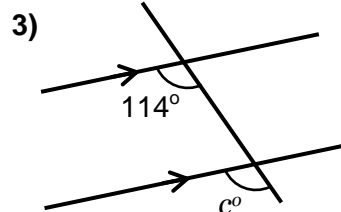
**Section B:** Calculate the missing angle and give a reason for your answer.



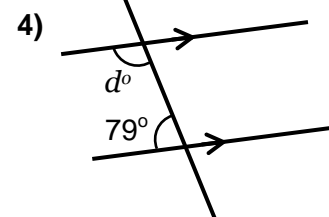
Angle  $a$ :  $108^\circ$   
Reason: Alternate angle



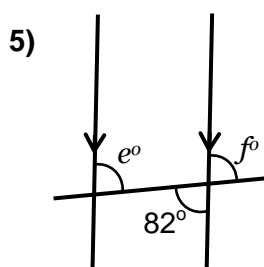
Angle  $b$ :  $43^\circ$   
Reason: Corresponding angle



Angle  $c$ :  $114^\circ$   
Reason: Corresponding angle

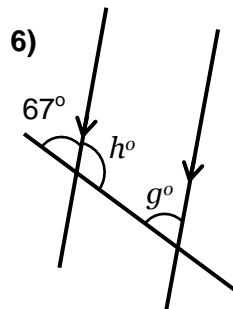


Angle  $d$ :  $101^\circ$   
Reason: Interior angle



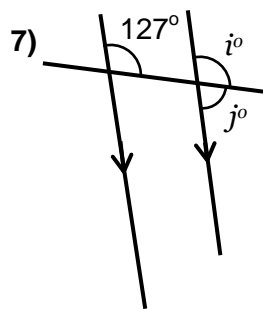
Angle  $e$ :  $82^\circ$   
Reason: Alternate angle

Angle  $f$ :  $82^\circ$   
Reason: Corresponding angle



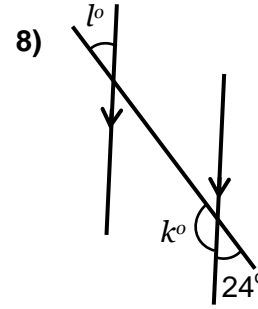
Angle  $g$ :  $67^\circ$   
Reason: Corresponding angle

Angle  $h$ :  $113^\circ$   
Reason: Interior angle



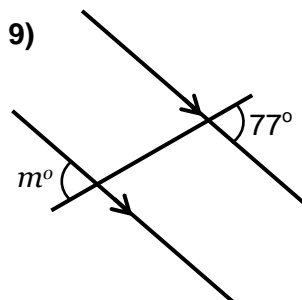
Angle  $i$ :  $127^\circ$   
Reason: Corresponding angle

Angle  $j$ :  $53^\circ$   
Reason: Angles on straight line =  $180^\circ$

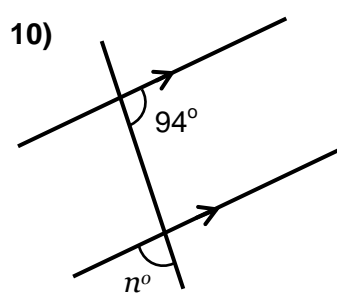


Angle  $k$ :  $156^\circ$   
Reason: Angles on straight line =  $180^\circ$

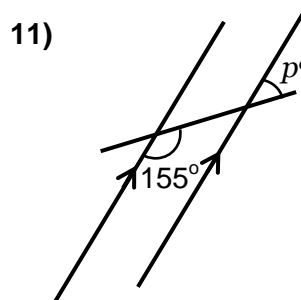
Angle  $l$ :  $24^\circ$   
Reason: Angle on straight line then corresponding



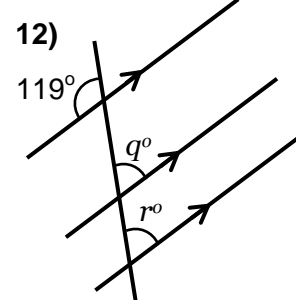
Angle  $m$ :  $77^\circ$   
Reason: Corresponding angle then opposite angle



Angle  $n$ :  $86^\circ$   
Reason: Corresponding angle then angle on a straight line



Angle  $p$ :  $25^\circ$   
Reason: Alternate angle then angle on a straight line



Angle  $q$  &  $r$ :  $61^\circ$   
Reason: Angle on straight line then alternate angle to  $q$  and corresponding angle to  $r$