

Angles in parallel lines with one transversal

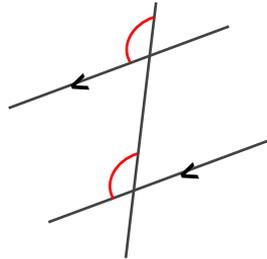
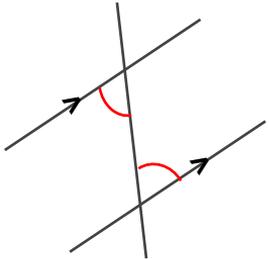
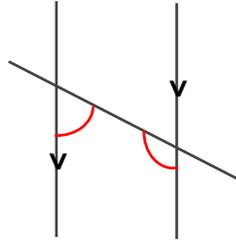
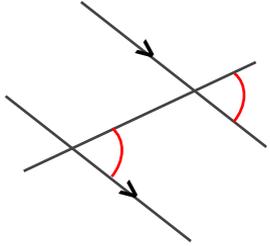
Maths

Mr Clasper

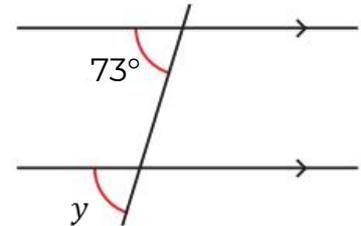
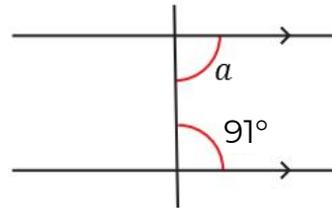
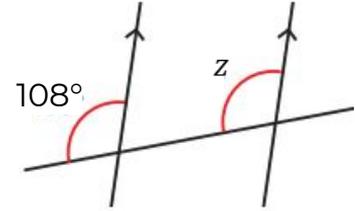
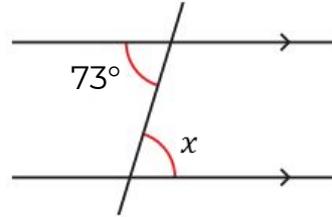


Angles in parallel lines with one transversal

1. State whether each pair of angles are alternate, corresponding or co-interior.

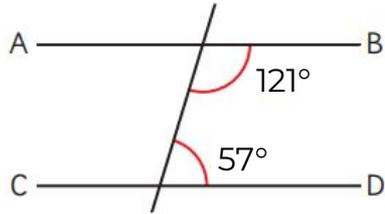


2. Find the missing marked angles. Write down a reason for each.

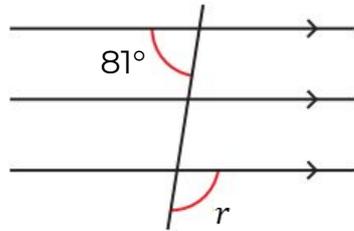
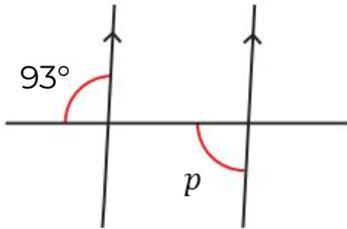


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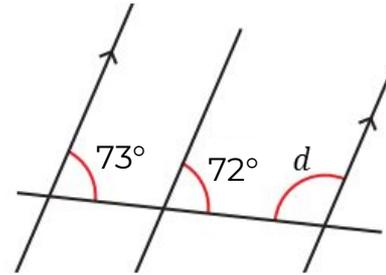
3. Are the two lines segments AB and CD parallel? Explain your reasoning.



4. Work out the missing angles. Give reasons for your answers.



5. Mo thinks that angle d is 108° because $72^\circ + 108^\circ$ is equal to 180° .



Is Mo correct? Explain your answer.

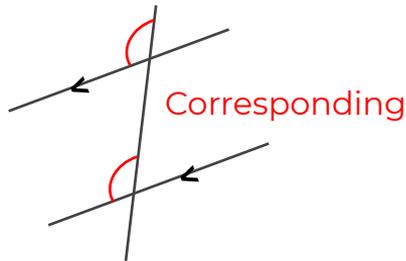
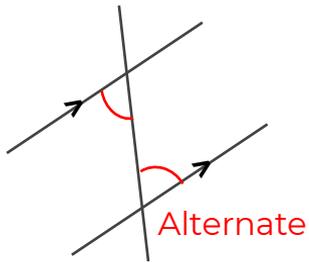
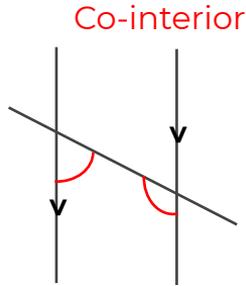
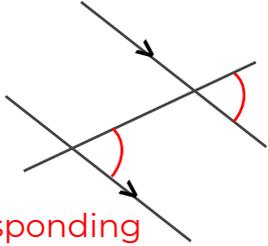


Answers

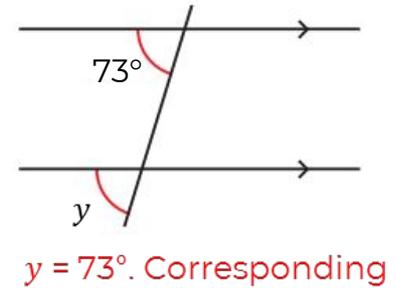
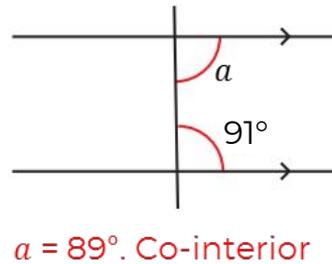
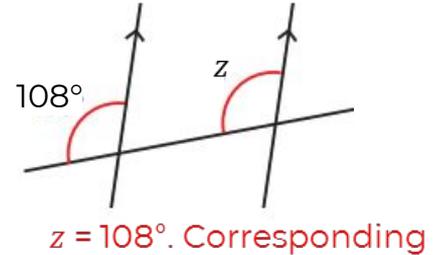
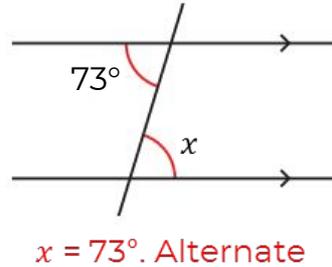


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1. State whether each pair of angles are alternate, corresponding or co-interior.

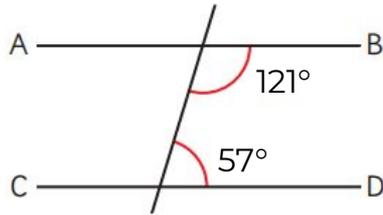


2. Find the missing marked angles. Write down a reason for each.



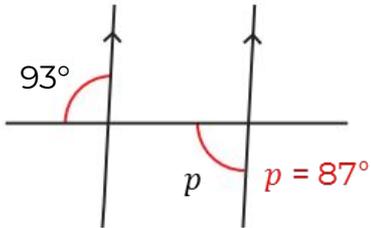
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3. Are the two lines segments AB and CD parallel? Explain your reasoning.

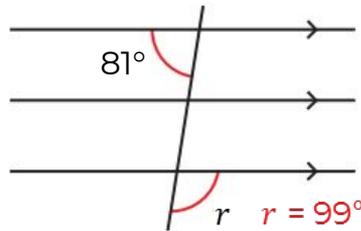


No. If they were parallel then the co-interior angles would have a sum of 180°

4. Work out the missing angles. Give reasons for your answers.

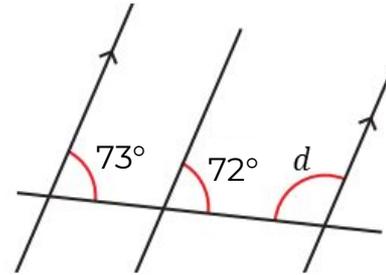


$p = 87^\circ$



$r = 99^\circ$

5. Mo thinks that angle d is 108° because $72^\circ + 108^\circ$ is equal to 180° .



Is Mo correct? Explain your answer.

No.

The 73° angle and d are co-interior as these touch each parallel line
There are only two parallel lines, not three

