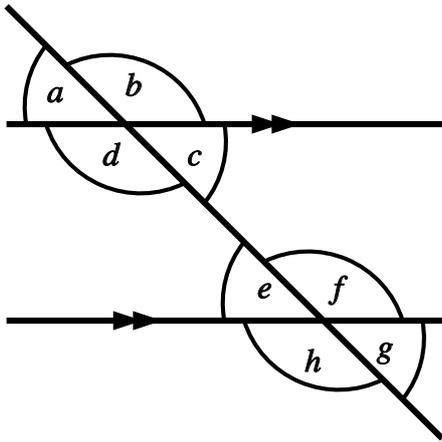


Parallel Line Rules

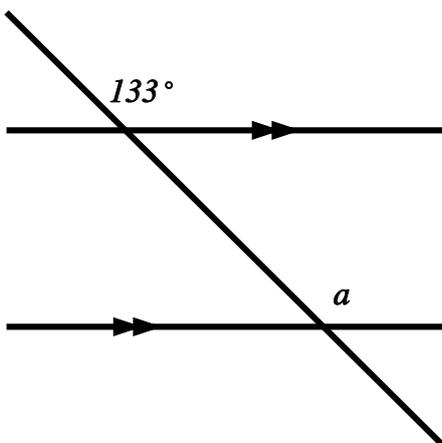
Name:	Class:	Date:
-------	--------	-------

Mark	/9	%
------	----	---

1) Using the picture below, identify the letter that matches with angle **d** to make a pair of alternate angles



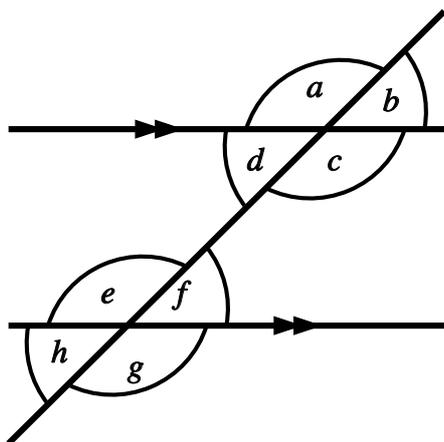
2) Find the value of a , giving a reason for your answer.



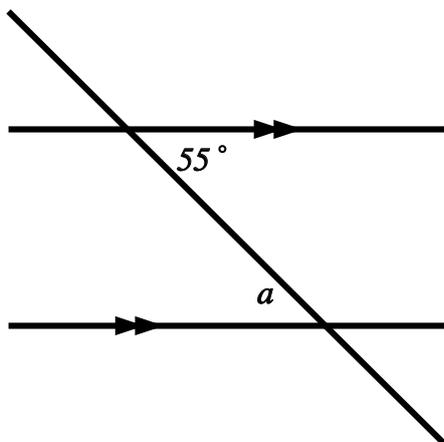
[1]

[1]

3) Using the picture below, identify the letter that matches with angle **d** to make a pair of co-interior angles



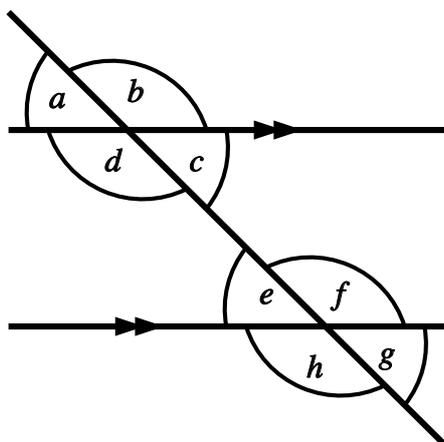
4) Find the value of *a*, giving a reason for your answer.



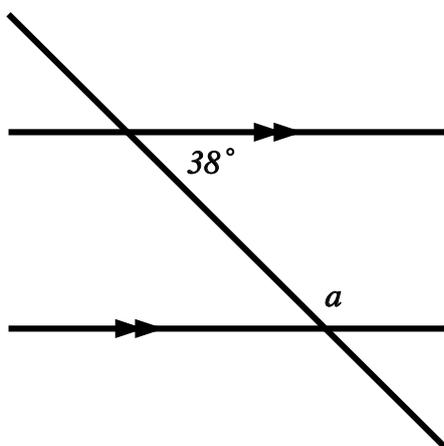
[1]

[1]

5) Using the picture below, identify the letter that matches with angle **d** to make a pair of corresponding angles



6) Find the value of a , giving a reason for your answer.

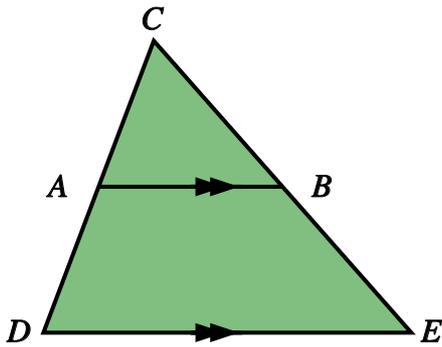


[1]

[1]

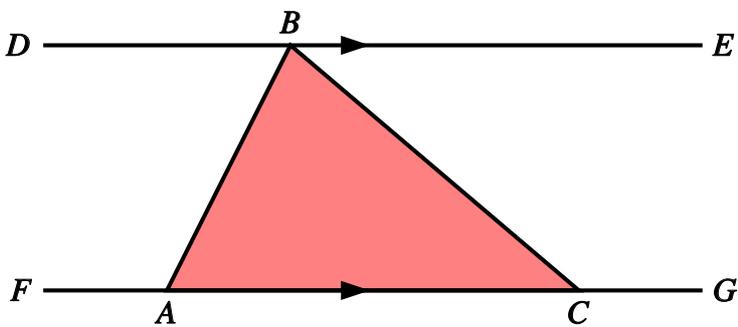
7) In the following diagram, AB is parallel to DE . Angle $ACB = 69^\circ$ and angle $CED = 52^\circ$. Find the missing angles CAB , ABE and CDE .

[1]



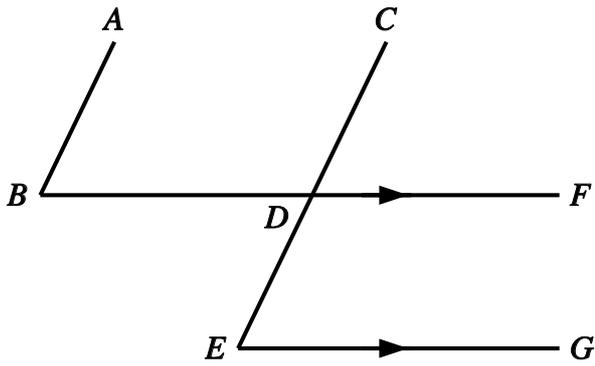
8) In the following diagram, DE is parallel to FG . Angle $ABC = 70^\circ$ and angle $ACB = 47^\circ$. Find the missing angles DBA , EBC and FAB .

[1]



9) In the following diagram, BDF is parallel to EG and AB is parallel to CDE .
Given that angle $ABD = 51^\circ$, find angle BDC and angle DEG .

[1]



Solutions for the assessment Parallel Line Rules

- 1) f
- 2) $a = 133^\circ$ (Corresponding angles are equal)
- 3) e
- 4) $a = 55^\circ$ (Alternate angles are equal)
- 5) h
- 6) $a = 142^\circ$ (Co-interior angles sum to 180°)
- 7) angle CAB = 59° , angle ABE = 128° , angle CDE = 59°
- 8) angle DBA = 63° , angle EBC = 47° , angle FAB = 117°
- 9) angle BDC = 129° , angle DEG = 51°