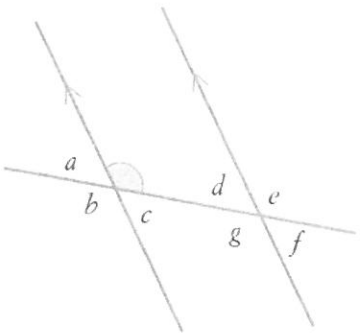
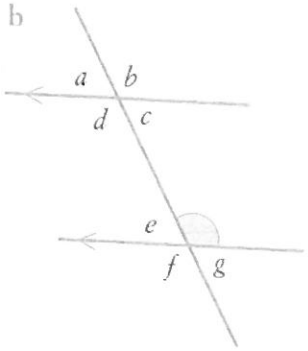
Alternate and Corresponding Angles

1. Which angle is alternate to the marked angle each time?

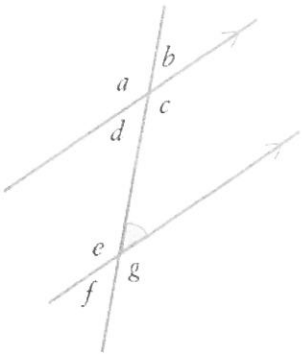
a



b



c



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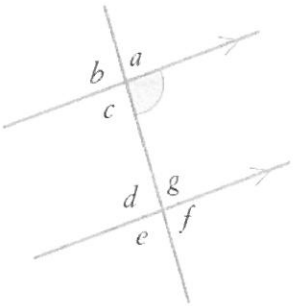
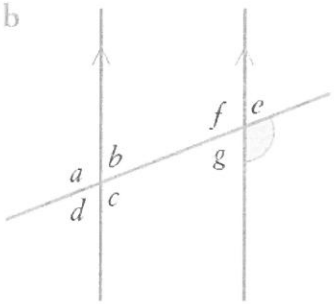
2. Which angle corresponds to the marked angle in each of the diagrams below?

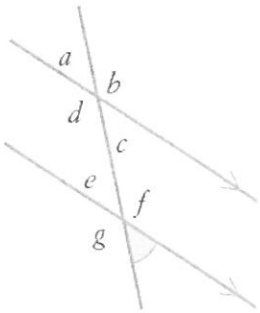
a



b



c



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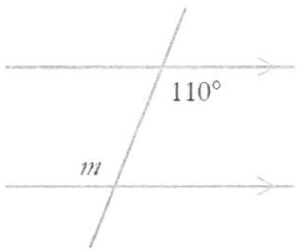
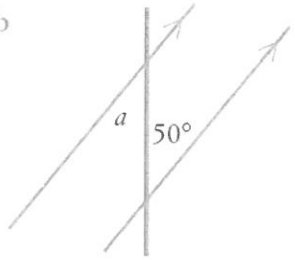
3. Write the size of each angle shown by a letter.

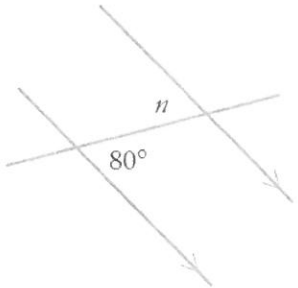
a



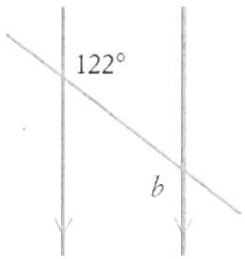
b



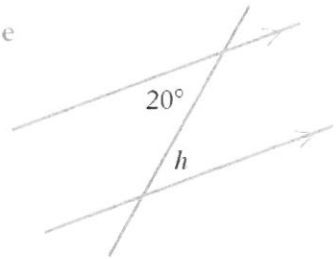
c



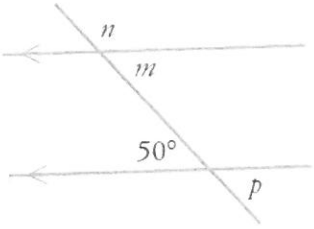
d



e



f



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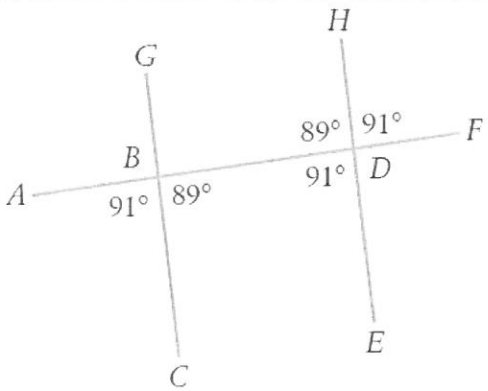
4. What reason can be used to prove that $GC \parallel HE$?
Select **A**, **B**, **C** or **D**.

A $\angle ABC = \angle HDF$ (corresponding angles)

B $\angle CBD = \angle BDH$ (alternate angles)

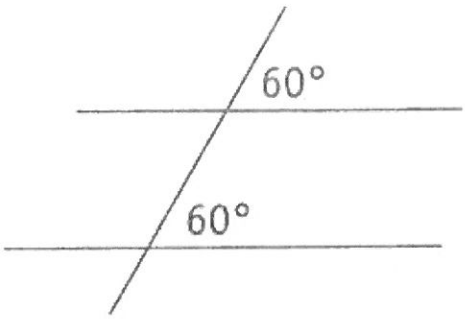
C $\angle ADE = 91°$ (corresponding angles)

D $\angle BDE = \angle FDH$ (vertically opposite angles)

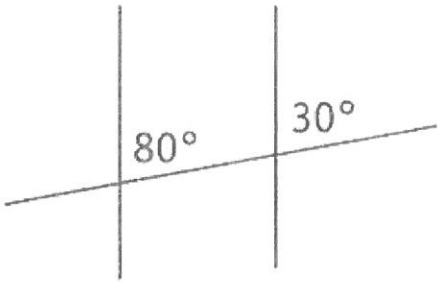


5. State whether the lines are parallel and give your reason.

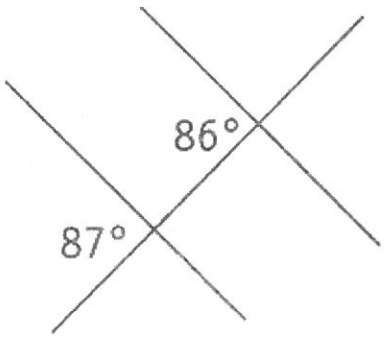
a)



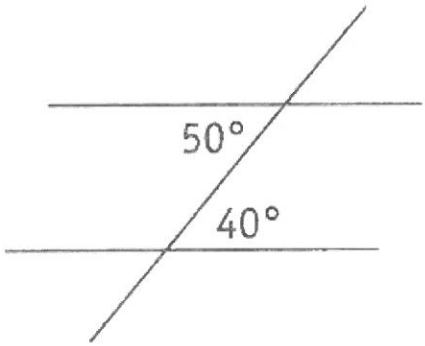
b)



c)



d)



e)