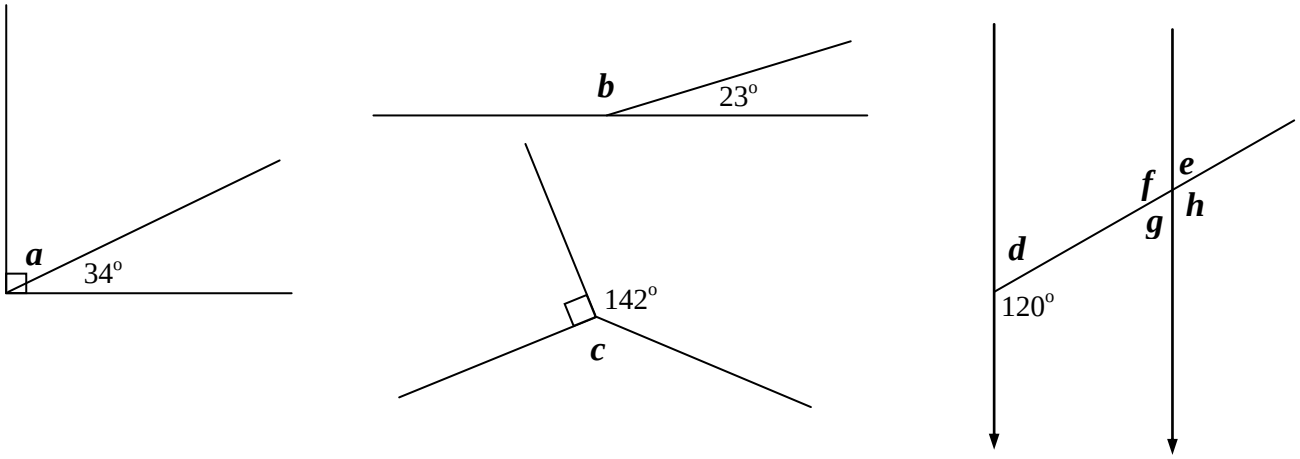
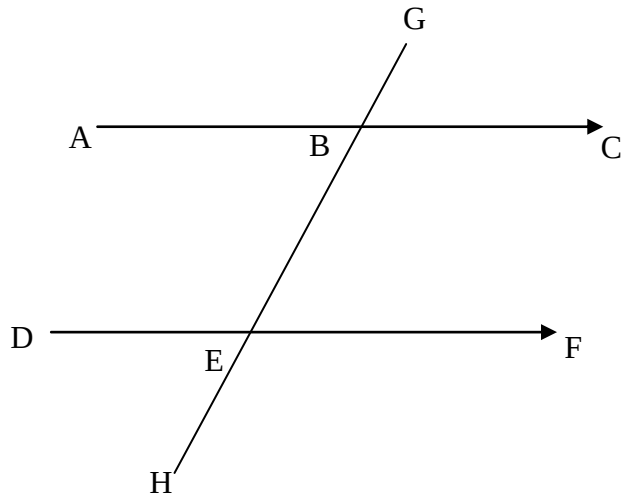
Using parallel lines, symmetry and circle properties to calculate angles

PART 1

1. Calculate the sizes of the missing angles in the diagrams below. [8]



2.



If ∠ABG = 125°, calculate the size of

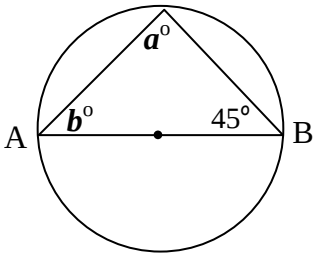
(a) ∠ABE **(b)** ∠DEH **(c)** ∠BEF **(d)** ∠GBC [4]

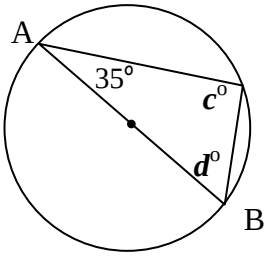
[12 marks]

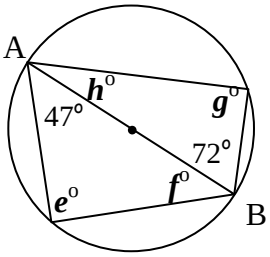
Using parallel lines, symmetry and circle properties to calculate angles

PART 2

1. In each of the diagrams below AB is a diameter. Find the missing angles in each diagram.

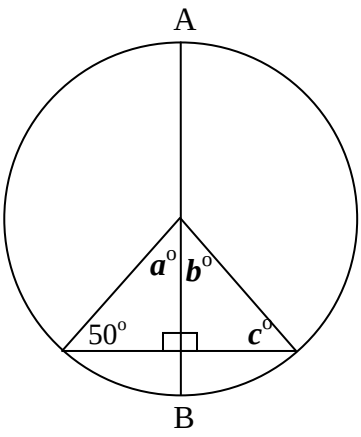


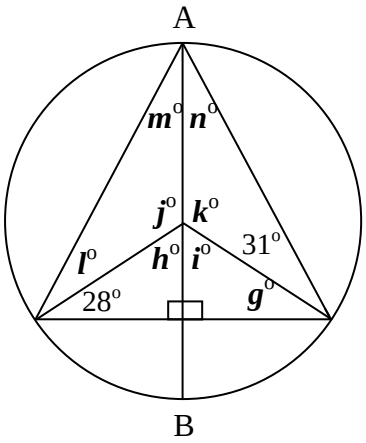




[8]

2. Use the symmetry properties of the circle to find the missing angles in the diagrams below. In each diagram AB is a diameter.





[11]

[19 marks]