



GEOMETRY OF STRAIGHT LINES

Topic 10

EXERCISES

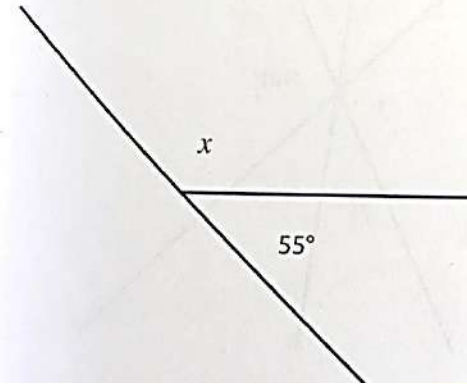


**Ex 10.1 Page 87-88
(No.1-8)**

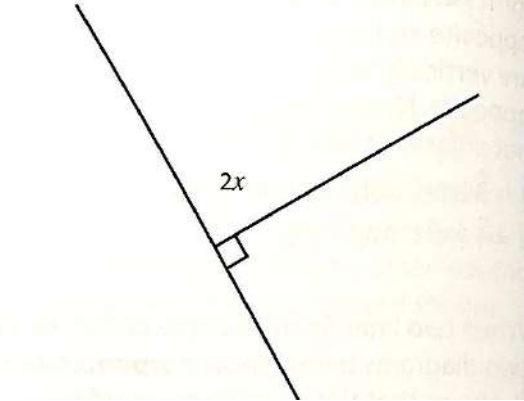
EXERCISE 10.1 Pg. 87

Calculate the unknown angles in each of the following, giving reasons for all your statements

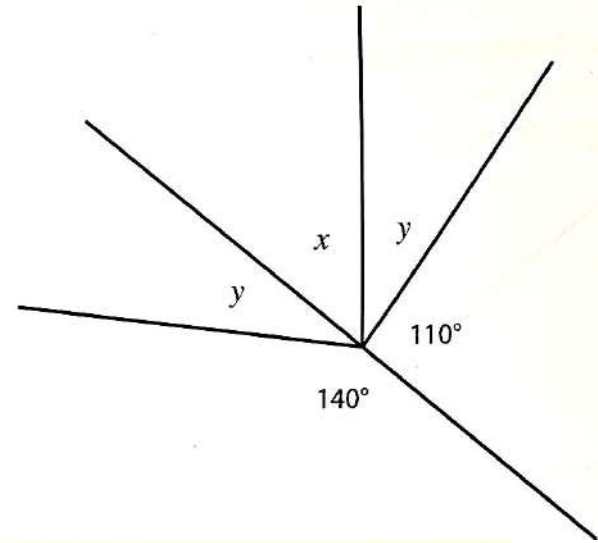
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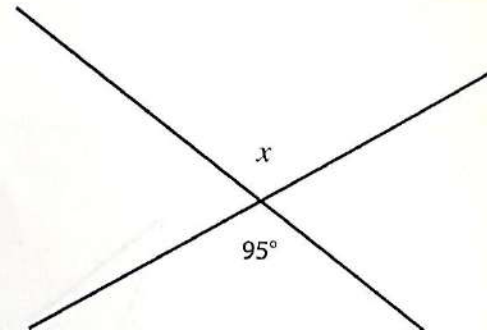
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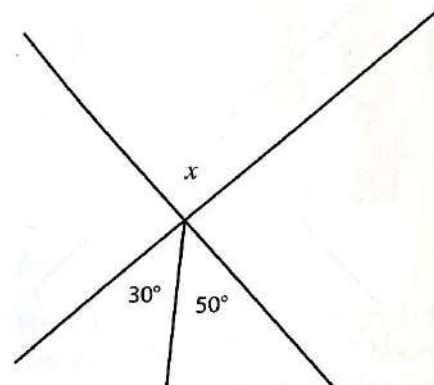
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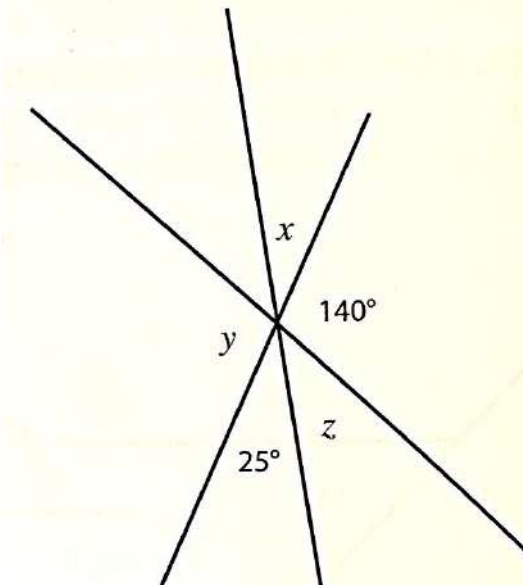
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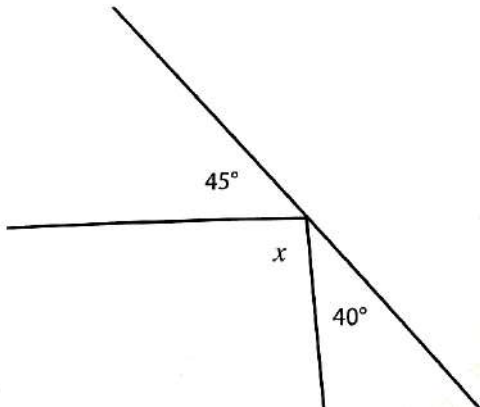
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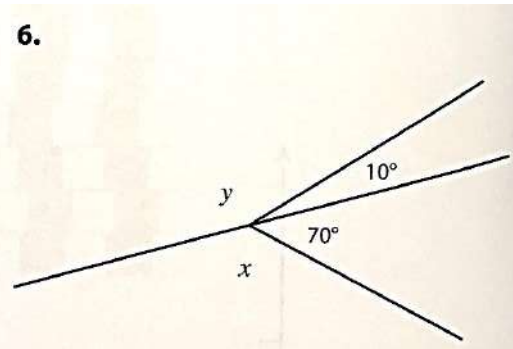
8.



3.



6.

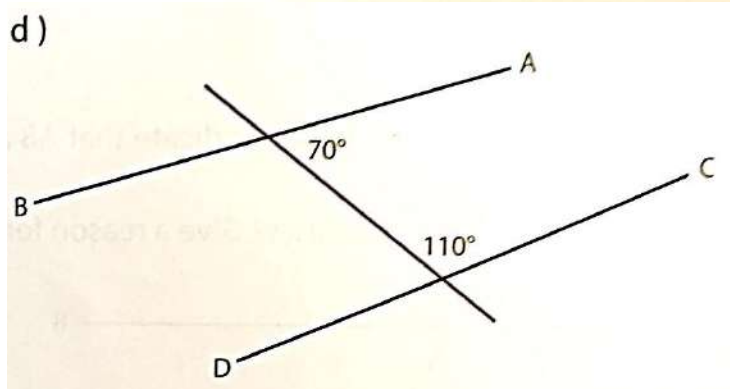
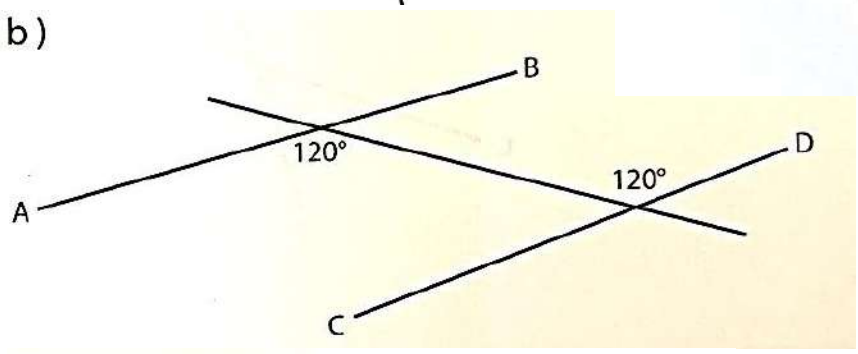
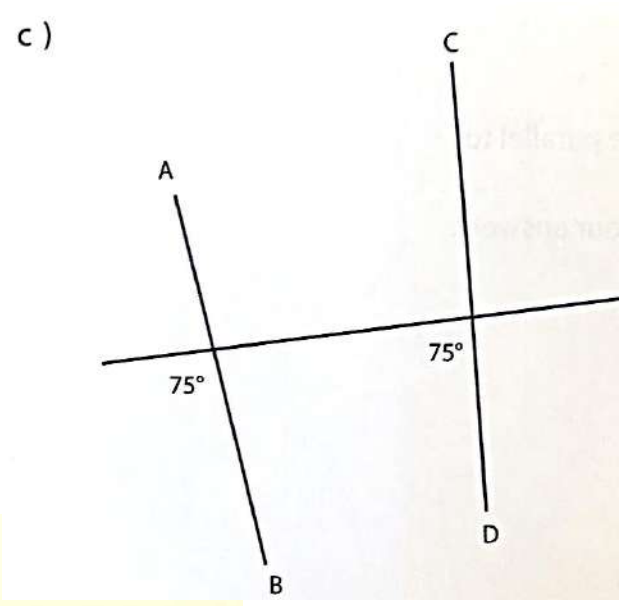
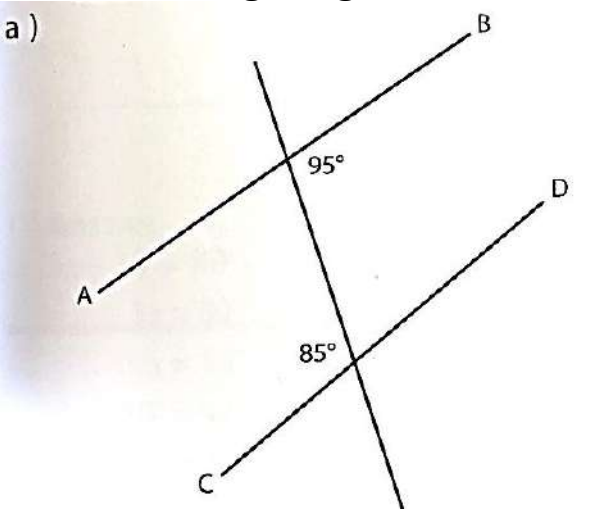




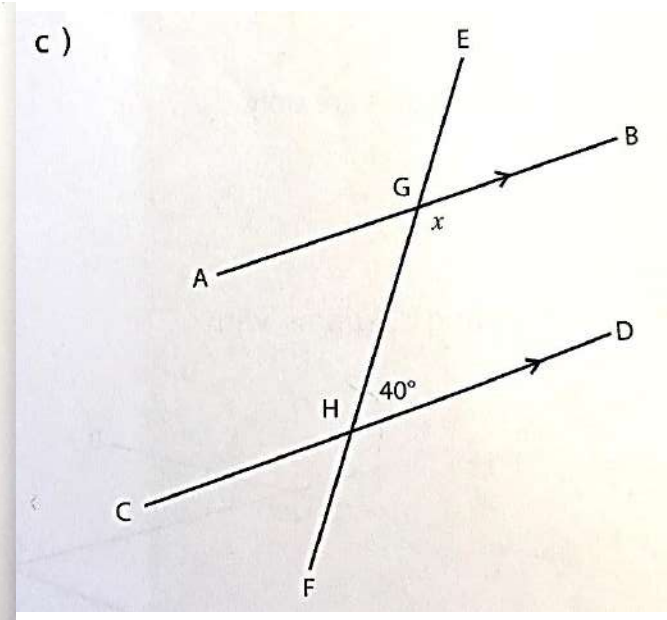
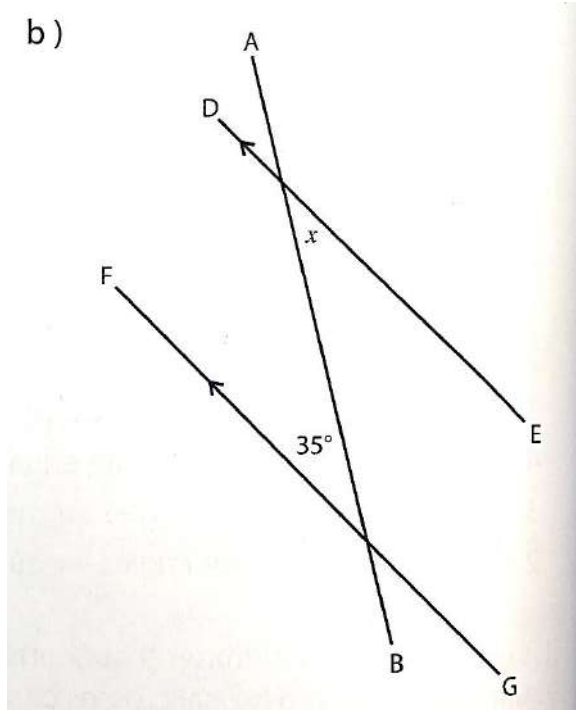
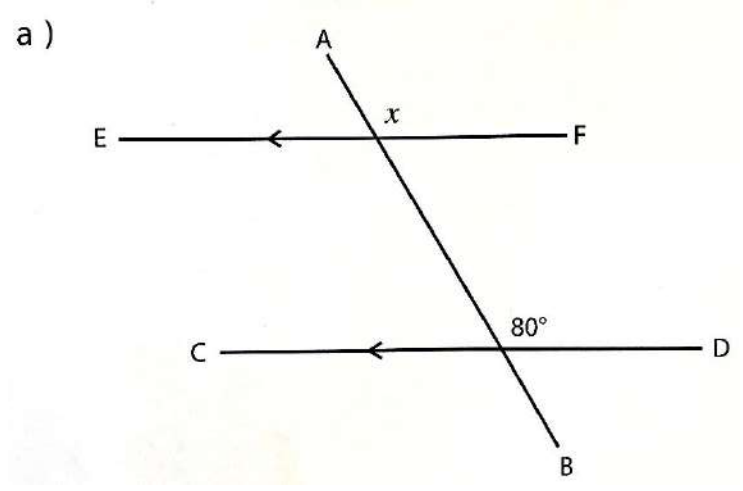
**Ex 10.2 Page 91-92
(No.1, 2)**

EXERCISE 10.2 Pg. 91

1. State whether lines AB and CD are parallel in the following diagrams, with reasons.



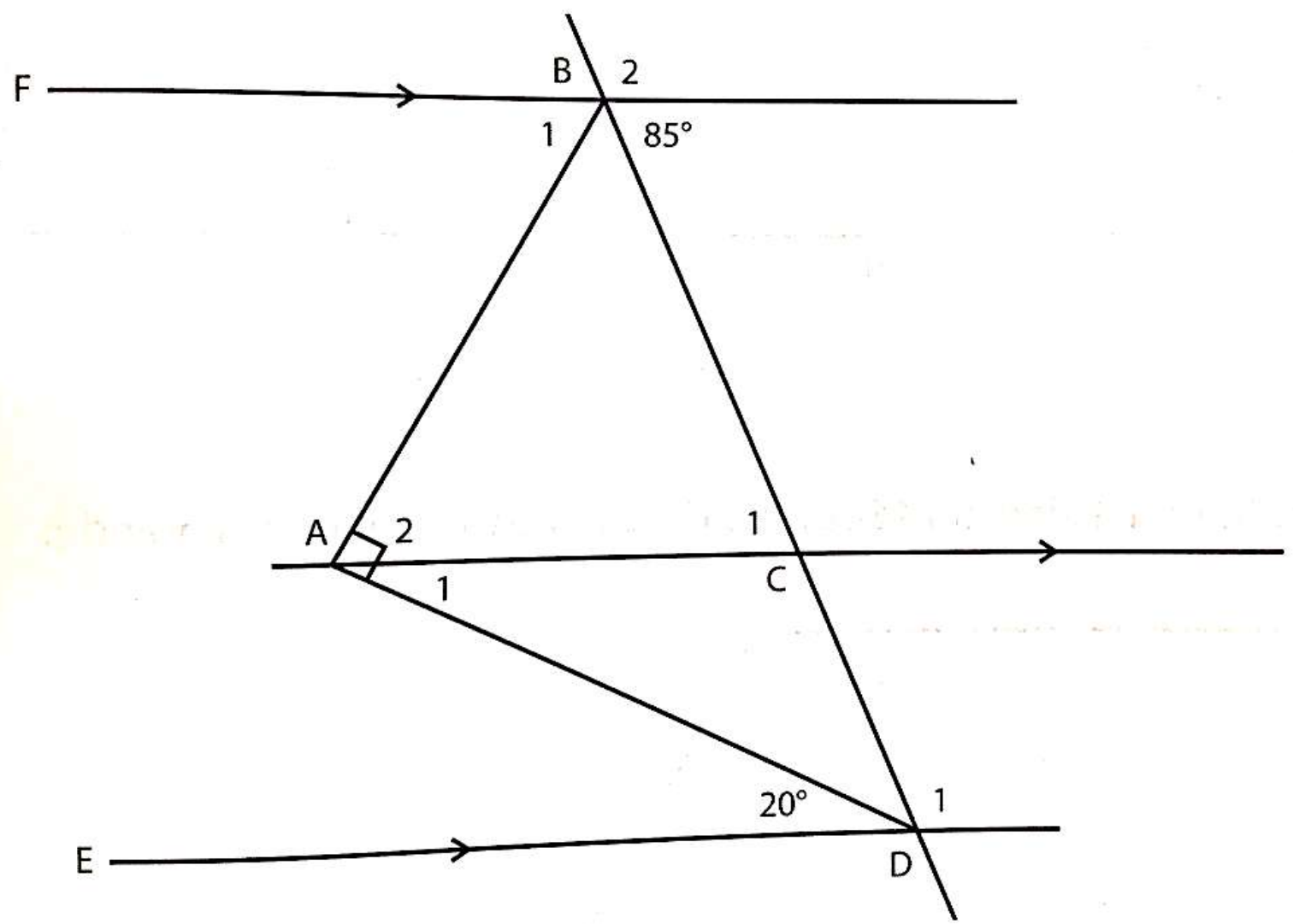
2. Calculate the unknown angles in each of the following, giving reasons for all your statements





**Ex 10.3 Page 95-96
(No.1, 2, 3)**

EXERCISE 10.3 Pg. 95 (No. 1,2,3)



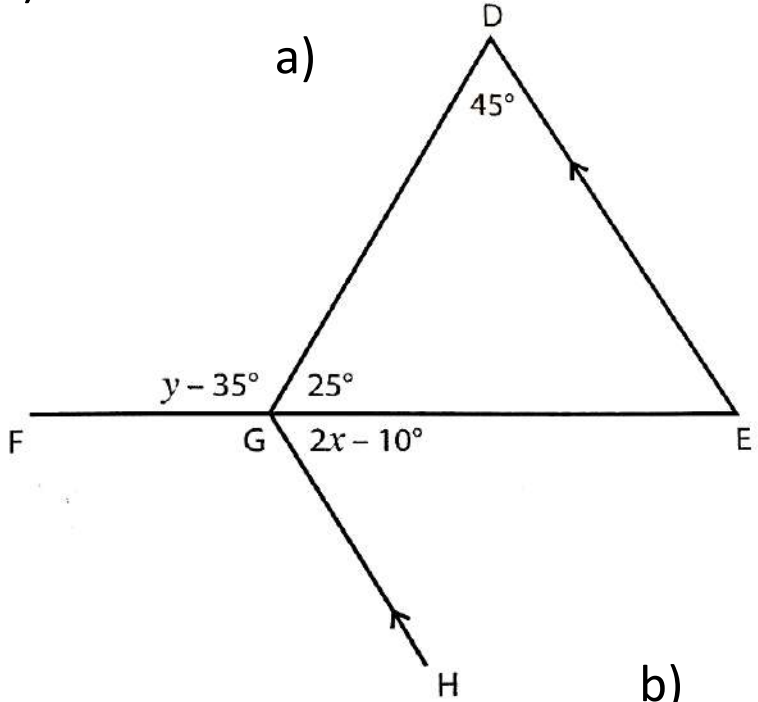
1.) Determine the sizes of the following angles and give reasons for your answers:

- a.) \hat{A}_1
- b.) \hat{A}_2
- c.) \hat{B}_1
- d.) \hat{B}_2
- e.) \hat{C}_1
- f.) \hat{D}_1

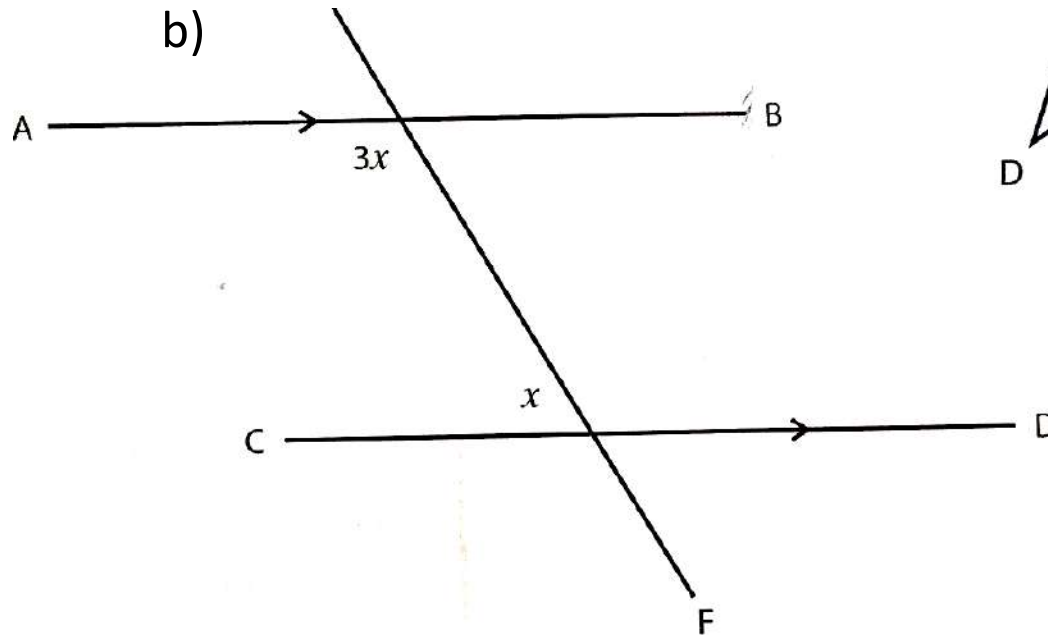
EXERCISE 10.3 Pg. 95

2.) Determine the unknown values in the following diagrams, giving reasons for your statements.

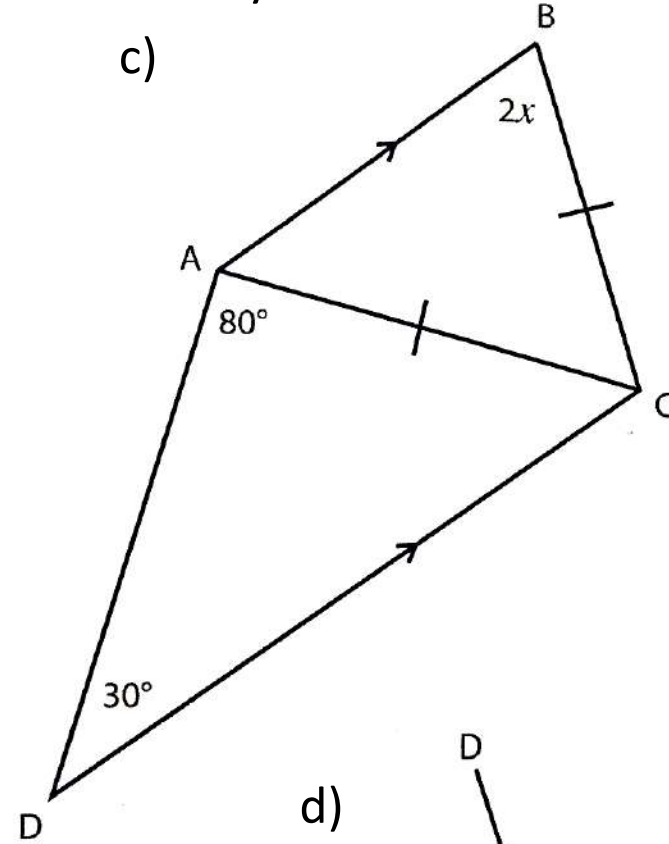
a)



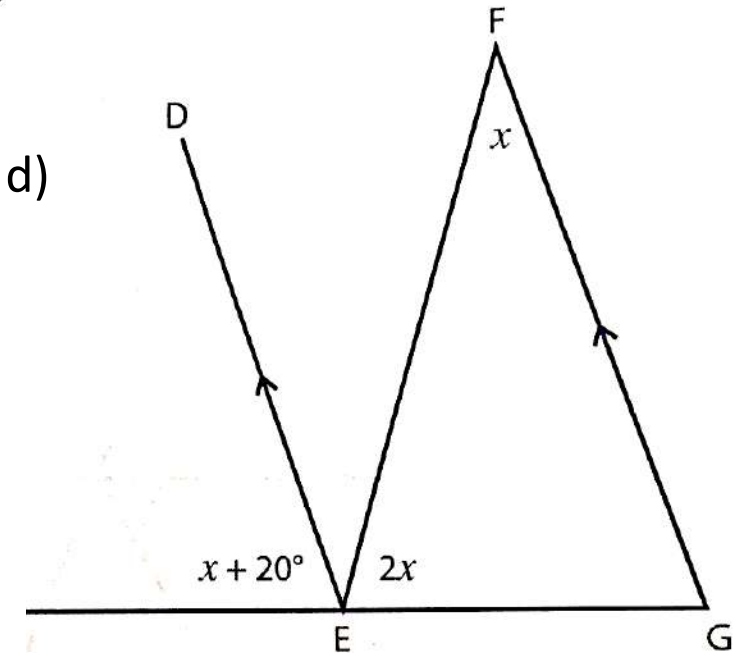
b)



c)

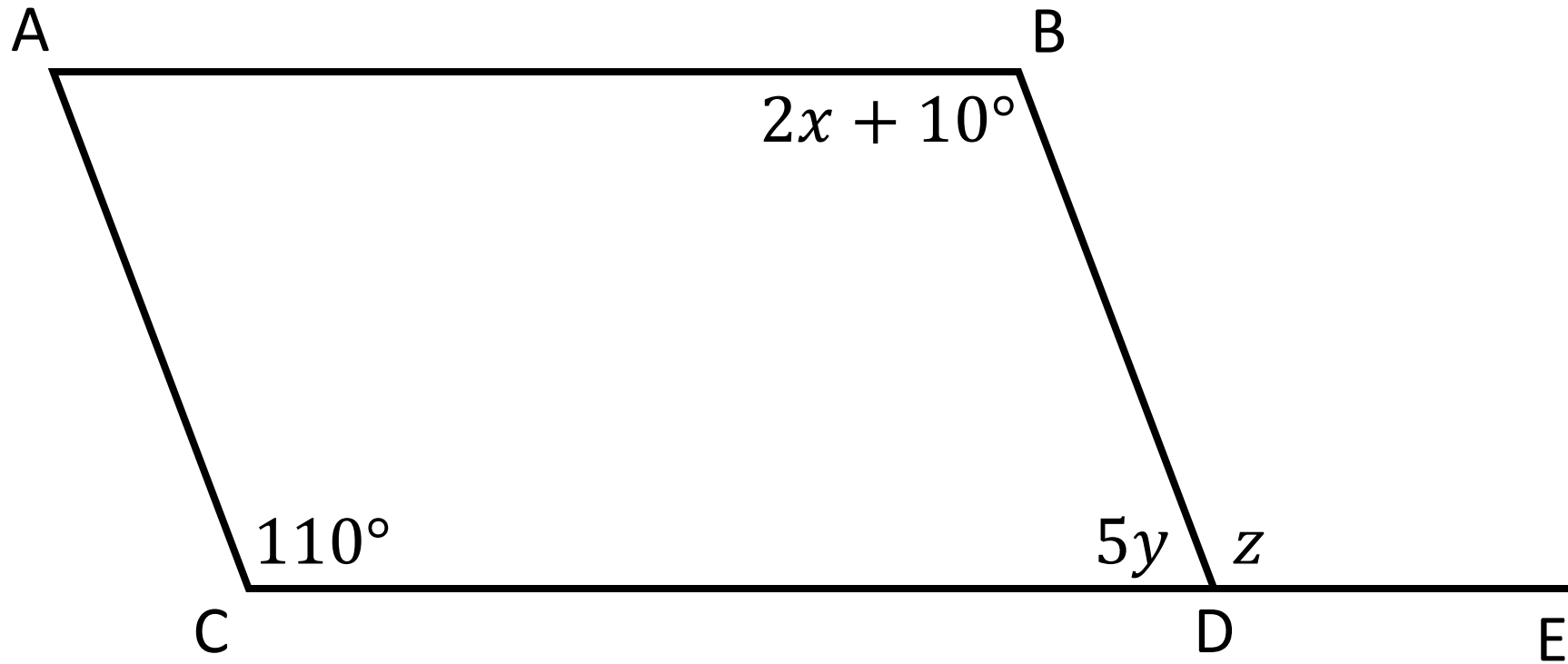


d)



EXERCISE 10.3 Pg. 95

3.) Consider the parallelogram ABCD, and determine the values of x , y and z .

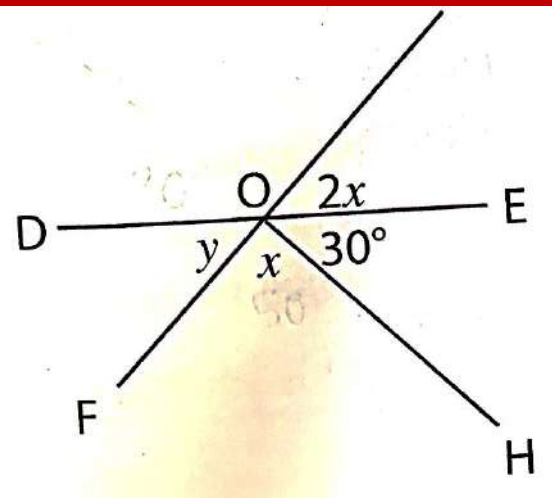




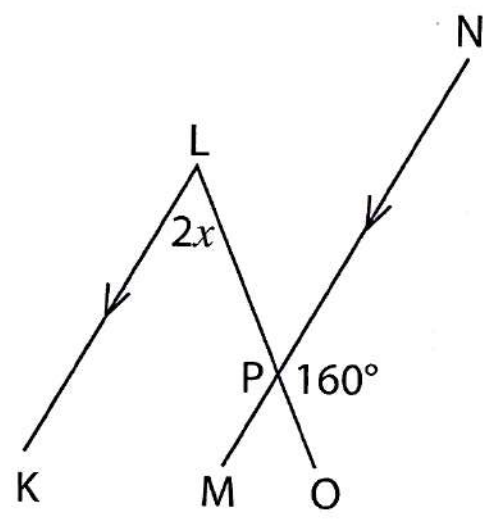
**Rev Ex Page 97
(No.1e-h, 2)**

REVISION EXERCISE Pg. 97 (No.1e-h, 2a-b)

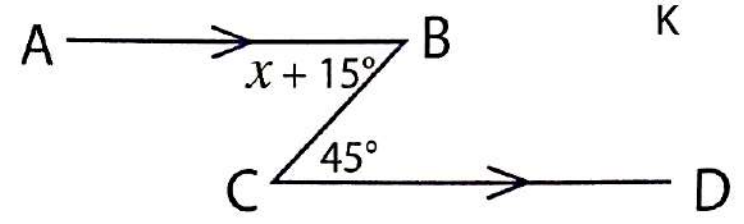
e)



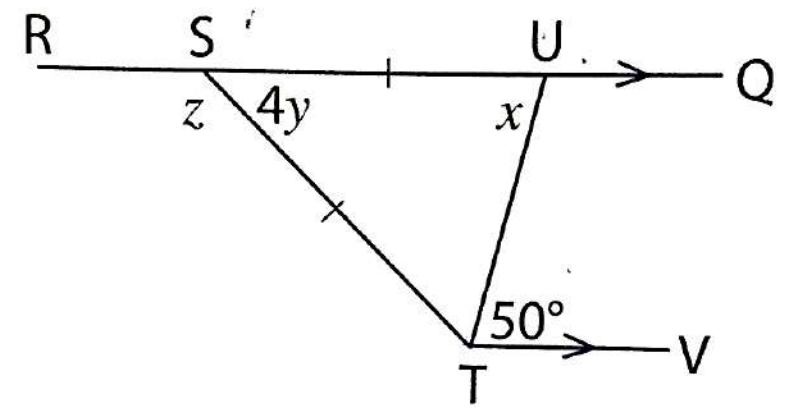
h)



f)

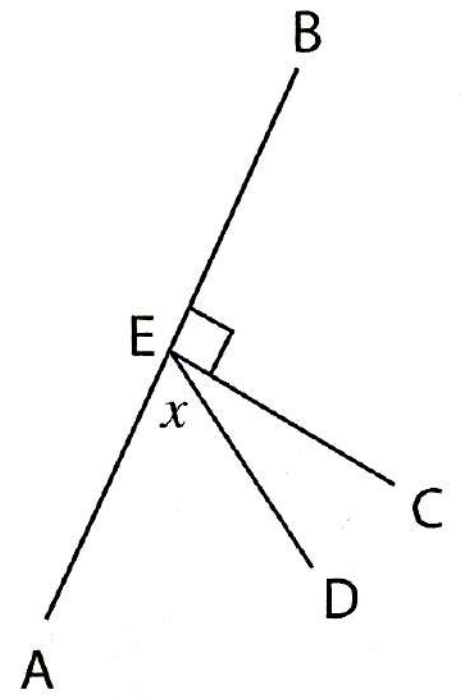


g) $SU = ST$



2. Express each of the following in terms of x , reasons for all your statements.

a) $\hat{DEC} = ?$



b) $\hat{GLK} = ?$

