

12) In $\triangle ABC$
 $\angle A + \angle B + \angle C = 180^\circ$ (angle sum prop. of \triangle)

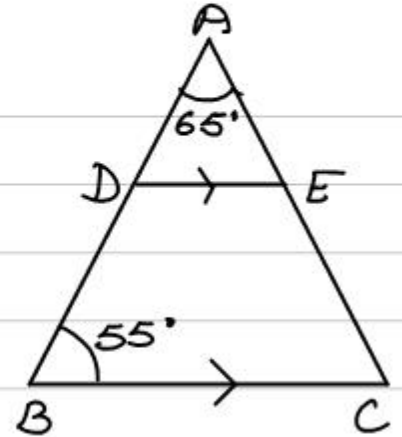
$$65^\circ + 55^\circ + \angle C = 180^\circ$$

$$\Rightarrow \angle C = 180^\circ - 120^\circ$$

$$= 60^\circ$$

$DE \parallel BC$

$\therefore \angle ADE = \angle B = 55^\circ$ (corresponding angles)
 $\angle AED = \angle C = 60^\circ$



- 13) i) no [\because Sum of 3 angles will be $> 180^\circ$]
 ii) no [\because Sum of 3 \angle s will be $> 180^\circ$]
 iii) yes [\because Sum of 3 \angle s may be 180°]
 iv) no [\because Sum of 3 angles be $> 180^\circ$]
 v) yes [\because Sum of 3 angles = 180°]

- 14) yes [each acute $\angle = 45^\circ$]
 yes [eg \triangle with Sides 3cm, 4cm, 5cm]
 no [unequal sides have unequal sides opp. to them]
 yes [if acute \angle s are equal]

- 15) i) obtuse angle ii) complementary
 iii) 45° iv) 60°
 v) hypotenuse v) perimeter