



Prove that angle $BAC + ABC = BCD$

Solution:

$$\text{Angle } ABC + BAC + ACB = 180 \text{ ----- 1)}$$

$$\text{Angle } ACB + BCD = 180 \text{ ----- 2) (Angles in linear pair)}$$

From 1) and 2)

$$ABC + BAC + ACB = ACB + BCD$$

Hence,

$$\text{Angle } BAC + ABC = BCD$$