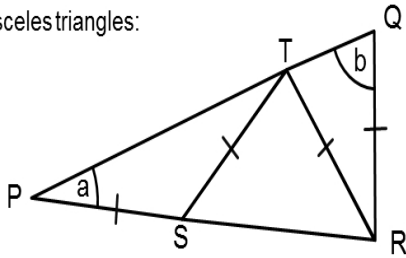


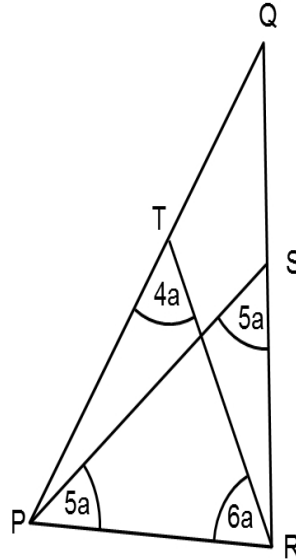
isosceles triangle proofs (iv)

- (5) a triangle (PQR) is dissected into three isosceles triangles:



prove that  $b = 3a$   
can triangle PQR be isosceles?

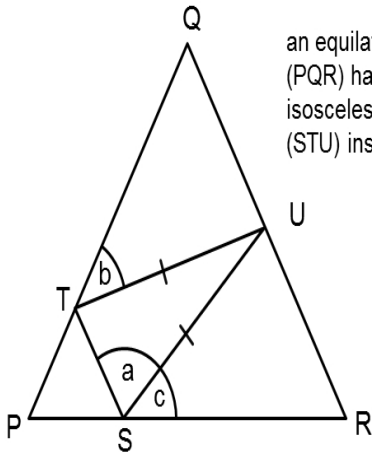
- (6)



four angles are as shown

prove that triangle PQR is isosceles

- (7)

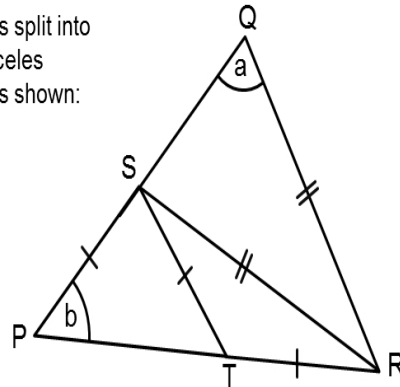


an equilateral triangle (PQR) has an isosceles triangle (STU) inside it

prove that  $2a + b + c = 240^\circ$

- (8)

a triangle is split into three isosceles triangles as shown:



prove that  $3b = 2a$   
can triangle PQR be isosceles?