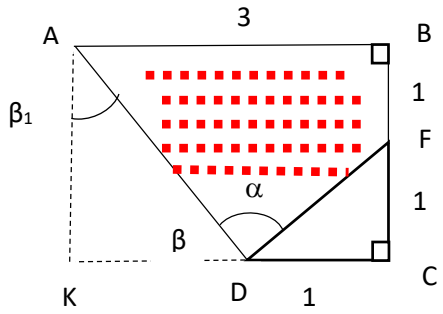
Geometry



Given : BF=FC=DC=1 , Trapezoid

AK II BC

AK = 1 +1

KC = AB = 3

KD = 3 - 1 =2

AK = KD , $\measuredangle$ K = 90^0

$\beta = \beta_1 = \frac{180^0 - 90^0}{2} = 45^0$

$\beta + \alpha + \measuredangle FDC = 180^0$

$\measuredangle FDC = 45^0$

$\alpha = 90^0$