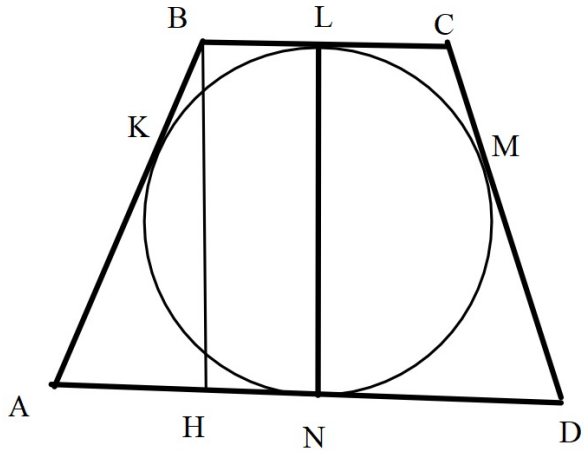

KB=BL=CM=LC=9

r=12 => BH=LN=24

2*AB =BC+AD

AB=x; => 2x=9*2+AD => AD=2x-18

AN=AD/2 => AN =x-9

AH=AN-HN=AN-BL=x-9-9=x-18

ΔABH: $AB^2= AH^2 +BH^2$

$x^2= (x-18)^2+24^2$

$x^2-26x+324+576 =x^2$

x=25

Sabcd= (AD+BC)*LN/2= 2*AB*LN/2= AB*LN=25*24=600