

N2

$$\frac{a^3 - b^3}{(a+b)^3} = \frac{43}{12}$$

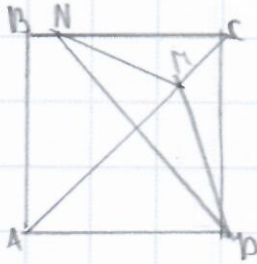
$$\frac{(a-b)(a^2+ab+b^2)}{(a-b)^3(a+b)} = \frac{43}{12}$$

$$\frac{a^2+ab+b^2}{(a-b)^2} = \frac{43}{3}$$

$$3(a^2+ab+b^2) = 43(a-b)^2$$

N1

ABCD □  
 AB=BC=AC=AD  
 MN=MP  
 ∠MDN=?



∠DA=90°  
 ∠AC=90°  
 ∠P=90°

Егер ABCD □ болса ∠ABC = ∠BCA = ∠ACB = 60°  
 ∠A = (180° - 90°) / 2 = 45° = ∠C ∠ABC - теңбүйірлі үшбұрыш

ABC өзара тең ∠ACD егер ∠ABC = ∠BCD онда  
 ∠B = ∠D ∠A = ∠C ∠MDN - теңбүйірлі үшбұрыш  
 ∠MDN = ∠B + ∠A ∠D = ∠B = 90° ∠A = ∠C = 45° онда  
 ∠MDN = 90° + 45° = 135°

ЖС: ∠MDN = 135°