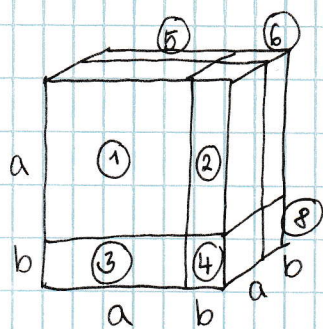


$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

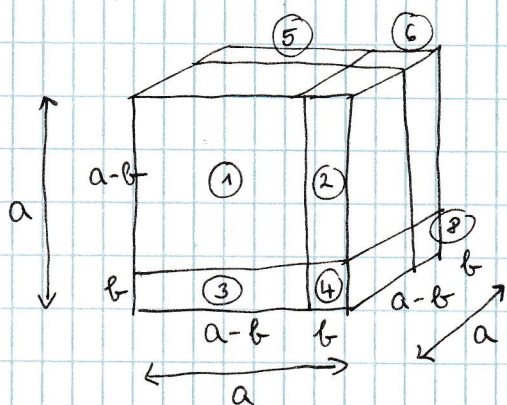


$$V = (a+b)^3$$

$$V = \overset{\textcircled{1}}{a^3} + \overset{\textcircled{2}}{a^2b} + \overset{\textcircled{3}}{a^2b} + \overset{\textcircled{4}}{ab^2} + \overset{\textcircled{5}}{ab^2} + \overset{\textcircled{6}}{b^3} + \overset{\textcircled{7}}{ab^2} + \overset{\textcircled{8}}{a^2b} =$$

$$= a^3 + 3a^2b + 3ab^2 + b^3$$

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



$$V = a^3$$

$$V = (a-b)^3 + (a-b)^2b + (a-b)^2b + (a-b)b^2 +$$

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

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

$$= (a-b)^3 + 3a^2b - 6ab^2 + 3b^3 + 3ab^2 - 3b^3 + b^3 =$$

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

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

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