21.09.21

b) $3 - (xz + y^2)$

$= 3 - xz - y^2$

e) $(2a + b - c) - (3a - b + c)$

$= \underline{2a} \; \underline{+b} \; \underline{-c} - \underline{3a} \; \underline{+b} \; \underline{-c}$

$= -a + 2b - 2c$

f) $(2a + b - c)(3a - b + c) = \underline{6a^2 - b^2 - c^2 + ab - ac + 2bc}$

	$2a$	$+b$	$-c$
$3a$	$\cancel{6a^2}$	$\cancel{3ab}$	$\cancel{-3ac}$
$-b$	$\cancel{-2ab}$	$\cancel{-b^2}$	$\cancel{+bc}$
$+c$	$\cancel{2ac}$	$\cancel{bc}$	$\cancel{-c^2}$

j) $\left(u+\frac{v}{4}\right)+\left(\frac{3u}{4}-\frac{5v}{6}\right) = u + \frac{v}{4} + \frac{3u}{4} - \frac{5v}{6} = \frac{12u}{12} + \frac{3v}{12} + \frac{9u}{12} - \frac{10v}{12}$

$$= \frac{21u}{12} - \frac{7v}{12} = \frac{7}{4}u - \frac{7}{12}v = \frac{7u}{4} - \frac{7v}{12}$$

$$= \frac{21u-7v}{12}$$

k) $\left(u+\frac{v}{4}\right)-\left(\frac{3u}{4}-\frac{5v}{6}\right)$

l) $\left(u+\frac{v}{4}\right)\left(\frac{3u}{4}-\frac{5v}{6}\right) = \frac{3u^2}{4} \boxed{- \frac{5uv}{6} + \frac{3uv}{16}} - \frac{5v^2}{24}$

$$= \frac{3u^2}{4} - \frac{40uv}{48} + \frac{9uv}{48} - \frac{5v^2}{24} = \frac{3}{4}u^2 \boxed{- \frac{31}{48}uv} - \frac{5}{24}v^2$$

Produits remarquables

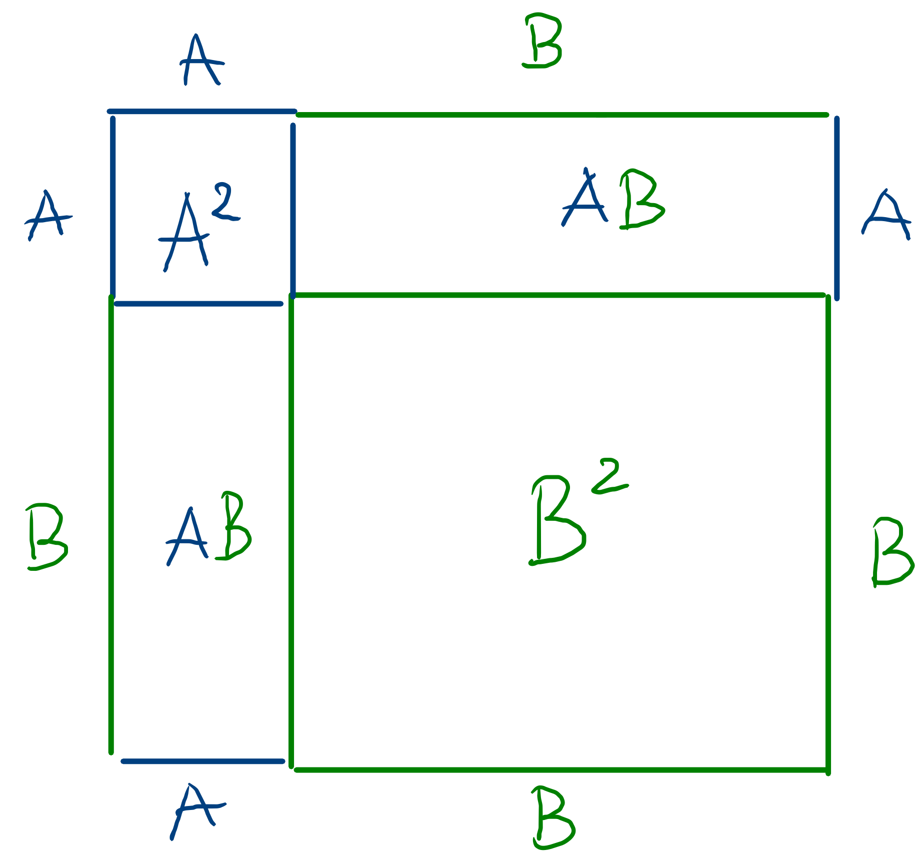
$$(A+B)^2 = A^2 + 2AB + B^2$$

$$(A-B)^2 = A^2 - 2AB + B^2$$

$$(A+B)(A-B) = A^2 - B^2$$

$$(A+B)^3 = A^3 + 3A^2B + 3AB^2 + B^3$$

$$(A-B)^3 = A^3 - 3A^2B + 3AB^2 - B^3$$



$$(a+b)^0 = 1$$

$$(a+b)^1 = a + b$$

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

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

$$(a+b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$$

$$(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^4$$

$$(a+b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6.$$

Triangle de Pascal

1									
1	1								
1	2	1							
1	3	3	1						
1	4	6	4	1					
1	5	10	10 +	5	1				
1	6	15	20	15	6	1			
1	7	21	35	35	21	7	1		
1	8	28	56	70	56	28	8	1	
1	9	36	84	126	126	84	36	9	1

$$C_5^3 + C_5^4 = C_6^4$$

TI-30 ECO RS
TEXAS INSTRUMENTS
ON/AC
2nd
DRG
LOG
LN
CE/C
HYP
SIN
COS
TAN
π
1/x
EE
STO
RCL
7
8
9
4
5
6
1
2
3
0
+/−