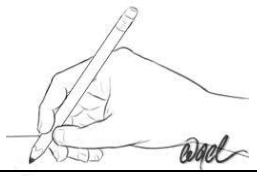

ثانوية سيدي عمرو التأهيلية ـ تازارين

سلسلة تمارين درس " **الحساب الحرفي** "

المادة : **الـــــريـــــاضـيـــــــات**	**الثانية ثـانوي إعدادي ، 2013**	**ذ : ياسـني نورالدين**

التمرين الأول : ـ بسط ما يلي :

$L=3ab-2a+45a-45+2ba-5b+8a-8$; $K=2a-1+0,5b-a+3-8b$

$N=2,4-9b-4a+2x+(-11)+5b-x+7a-1$; $S=-5ax+11+2a-(-2)-6ax+2a$

$d=7x-3x^2-8+5x^3+2x-x^2-4x^3-1$; $a=3x+2x^2-5+2x-7x^2+11$

$R=1-(4x-5+2y)+(3y-20+x)$; $V=2x-[1-5a-(5a+7-6x)]-(4x-a+8)$

$D=-\frac{4}{3}x^3-2x+\frac{1}{2}x^2+x^3-\frac{2}{3}x-4$; $B=\frac{7x}{4}-\frac{1}{2}y+5x+\frac{7}{4}y$; $J=\frac{-5x}{6}+\frac{-2}{7}-\frac{6}{7}x+3$

$T=\frac{5a+7}{3}+\frac{4b-a}{6}+\frac{3-6b}{2}$; $X=-\frac{2a}{3}-\frac{-1}{-3}+\frac{7}{6}a-\frac{3}{9}$; $U=-\frac{7}{5}+\frac{-1}{-5}+\frac{9}{8}a-\frac{3}{10}-\frac{-3}{4}a$

$Z=\frac{x^2-2x^3+5x-3}{12}-\frac{9+4x-x^3+3x^2}{6}$; $Q=\frac{9y+1}{15}-\left(\frac{-7+6x}{3}+\frac{-2y+x-7}{5}\right)$

$V=2a-\left[1-\frac{y}{7}-\left(-\frac{4}{5}x+\frac{9}{4}-\frac{6}{7}y\right)\right]-\left(\frac{4}{3}a-x-\frac{-1}{2}\right)$; $W=\frac{9x-5}{8}-\frac{y+4}{2}+\frac{5-3x+7y}{4}$

$a=\frac{2}{3}x-\left(\frac{1}{2}-\frac{5}{2}x^2\right)+\left(\frac{x^2}{2}-x+\frac{5}{3}\right)$; $b=-\left[\frac{5}{3}x-\left(\frac{1}{2}+x\right)\right]-\left(\frac{2}{3}x-\frac{1}{2}x+4\right)$; $I=\frac{x}{2}-\left(\frac{x}{3}-\frac{x}{4}\right)$

قواعد النشر والتعميل : ـ أتمم بالنشر **أو** التعميل :

$(a+b)(c-d)=\ldots$; $(a+b)(c+d)=\ldots$; $k(a-b+c)=\ldots$; $ka-kb=\ldots$; $k(a+b)=\ldots$

$a^2-b^2=\ldots$; $(a-b)^2=\ldots$; $a^2+2ab+b^2=\ldots$; $(a-b)(c+d)=\ldots$; $ac-ad-bc+bd=\ldots$

التمرين الثاني : ـ انشر وبسط ما يلي :

$(-3x-4)(-5-x)$; $(2x-1)(x+3)$; $5x(2x^2-x-1)$; $2x(1-x)$

$c=x(2x^2-x-3)+x^2(1-x)$; $a=2x(1-4x)+3x(2x+2)$; $-3x\left(\frac{1}{2}x-\frac{2}{3}\right)$

$B=3x\left(\frac{1}{2}x^2-x-\frac{1}{3}\right)+\frac{4}{3}x(1-x)$; $A=\frac{3}{2}x\left(\frac{x}{5}+\frac{1}{2}\right)-\frac{1}{2}x(5x+2)$

$$S = 4x\left(1+2x^2-3x^3+5x\right)+\left(-2x^4\right)+8x-7+x^2 \quad ; \quad T = \left(\frac{-6}{7}+\frac{2}{8}a\right)\left(\frac{3x}{5}-\frac{1}{4}\right)$$

$$R = \frac{-4a}{3}\left(\frac{7x}{6}-\frac{11}{2}+\frac{1}{-5}a\right)-7\left(\frac{-4}{-3}+\frac{ax}{5}-a^2\right) \quad ; \quad V = 3x\left(\frac{6t-1}{7}+\frac{2x}{4}-\frac{2}{9}\right)$$

$$b = \left(\frac{3}{4}x+\frac{2}{3}\right)^2 \; ; \; (x-7)(x+7) \; ; \; D = -2x\left(3-x\right)^2 \; ; \; A = \left(2x-1\right)^2 \; ; \; (a+5)^2$$

$$\left(6b-2+x\right)\left(6b-2-x\right) \; ; \; f = \left(\frac{5}{3}x-\frac{1}{2}\right)\left(\frac{5}{3}x+\frac{1}{2}\right) \; ; \; \left(\frac{-2}{11}x-\frac{-4}{-3}\right)^2 \; ; \; (2x+1-b)^2$$

التمرين الثالث : - عمل مايلي :

$$Q = \frac{-1}{5}ax^4+\frac{-7}{-6}a^2x-\frac{6ax}{8} \; ; \; A = 2a^2+6a \; ; \; W = 6ax-3x^2+18x \; ; \; Z = 2ax-2bx+2xc$$

$$c = 12x^3+4x^2\left(x+3\right)-4x^2 \; ; \; C = 24ab^2+12a^2b-4abc \; ; \; T = -4a^2bc-12ab^2c+8abc^2$$

$$M = 4-2a+2x-ax \; ; \; e = 5x\left(3-x\right)+\left(3-x\right)^2 \; ; \; F = \frac{25}{2}x^2\left(x-2\right)+\frac{5x}{4}\left(x-2\right)$$

$$S = 1-x+x^2-x^3 \quad ; \quad E = \frac{4}{-3}x^2-\frac{2}{3}x-\frac{ax^3}{3} \quad ; \quad P = \frac{6}{5}-6x+\frac{7}{5}x-7x^2$$

$$b = \left(5-\frac{2x}{3}\right)\left(\frac{2}{3}x+5\right)-\left(5-\frac{2x}{3}\right)^2+\left(5-\frac{2x}{3}\right) \; ; \; a = \left(\frac{1}{2}x+\frac{7}{2}\right)^2+\left(\frac{1}{2}x+\frac{7}{2}\right)\left(3x-\frac{2}{5}\right)$$

$$J = \left(2x\right)^2-9^2 \; ; \; X = 12^2-t^2 \; ; \; H = x^2-2\times x\times 1{,}5+1{,}5^2 \; ; \; k = 5^2+2\times 5\times 7+7^2$$

$$m = \left(\frac{7}{3}\right)^2-x^2 \; ; \; j = \left(\frac{5}{3}\right)^2+2\times\frac{5}{3}\times\frac{a}{9}+\left(\frac{a}{9}\right)^2 \; ; \; i = x^2-6x+9 \; ; \; I = a^2+4a+4$$

$$S_n = \left(2x\right)^2-a^2-\left(\frac{5t}{4}\right)^2 \quad ; \quad A_n = x^2-25 \quad ; \quad B_m = \frac{9}{4}-t^2 \quad ; \quad C_p = \frac{x^2}{4}+x+1$$

$$e = 16x^2-9 \; ; \; c = 81-36x+4x^2 \; ; \; b = x^2+2x+1 \; ; \; a = 25x^2+20x+4$$

$$C = \frac{9}{16}x^2+\frac{9}{4}x-4 \; ; \; D = 4x^4-12x^2+9 \; ; \; A = 32x^2-2 \; ; \; f = 144-4x^2$$

$$c = \left(\frac{3}{2}x+4\right)^2-\left(\frac{5}{2}-2x\right)^2 \; ; \; f = 9x^2-\frac{9}{2}x+\frac{9}{16} \; ; \; e = \frac{16}{9}x^2+\frac{16}{9}x+\frac{4}{9} \; ; \; a = \frac{9x^2}{4}-\frac{1}{9}$$