

S8/8

$$5 \cdot (2+5)^2 - 3 \cdot 2^2 + 4 \cdot 5$$

$$a = \underline{5}, b = \underline{2}$$

$$4 \cdot (1+5)^2 - 3 \cdot 1^2 + 4 \cdot 4$$

$$a = \underline{4}, b = \underline{1}$$

$$\frac{1}{4} \cdot (3+5)^2 - 3 \cdot 3^2 + 4 \cdot \frac{1}{4}$$

$$a = \underline{\frac{1}{4}}, b = \underline{3}$$

$$\underline{\underline{a \cdot (b+5)^2 - 3 \cdot b^2 + 4 \cdot a}}$$

S8/9

x	$\frac{1}{2}$	0,7	-4	4
y	$\frac{2}{3}$	-1,2	$-\frac{3}{5}$	$\frac{5}{6}$
$2(x^2 - 3y)$	$-\frac{7}{2}$	8,18	3,92	27
$2x - (6y - 4x)^2$	-3	-98,6	-4,8	-113

S8/10a) $V = a \cdot b \cdot c$

$$O = 2 \cdot (ab + bc + ac)$$

$$K = 4 \cdot (a + b + c)$$

b) $V = a \cdot c^2$ (c statt b)

$$O = 2 \cdot (2ac + c^2)$$

$$K = 4(a + 2c)$$

c) $V = a \cdot b \cdot c + ac^2 = ac(b+c)$

$$O = 2 \cdot (bc + 2ac + ab + ac) = 2(ab + bc + 3ac)$$

$$K = 4 \cdot (a + b + c) + 2 \cdot c$$

S8/11

$$K = 100 \cdot \left(1 + \frac{p}{100}\right)^n$$

$p = 0,5, n = 5:$ $K = 100 \cdot \left(1 + \frac{0,5}{100}\right)^5 \approx \underline{\underline{102,53}}$

$p = 0,5, n = 10:$ $\text{--- " ---}^{10} \approx \underline{\underline{105,11}}$

$p = 1, n = 5:$ $K = 100 \cdot \left(1 + \frac{1}{100}\right)^5 \approx \underline{\underline{105,10}}$

$p = 1, n = 10:$ $\text{--- " ---}^{10} \approx \underline{\underline{110,46}}$

S8/13 a) $U = n \cdot 3a - m \cdot a \cdot 2 = \underline{\underline{a(3n - 2m)}}$

b) $U = n \cdot ba - m \cdot a \cdot 2 = \underline{\underline{a(bn - 2m)}}$

S8/14 a) $x^2 + y^2 + 1$ b) $-x \cdot (y^2 + 1)$

S8/15 a) $100 \cdot a + 10 \cdot b + c$ b) $1000 \cdot a + 100 \cdot b + 10 \cdot c + d$

c) $50000 + 1000 \cdot b + 100 \cdot c + 10 \cdot d + 5$