

UKOL č. 7 (OBRAZKY jednotka 0,5 cm)

1) $f: y = x^2 + 2x + 4$
 $a = 1$
 $b = 2$
 $c = 4$

$x_0 = -\frac{b}{2a} = -\frac{2}{2 \cdot 1} = -1$

$y_0 = c - \frac{b^2}{4a} = 4 - \frac{4}{4} = 4 - 1 = 3$

a) $V[-1; 3]$

b) $P_x[x; 0]$

$0 = x^2 + 2x + 4$

$D = 4 - 4 \cdot 1 \cdot 4 = -12$

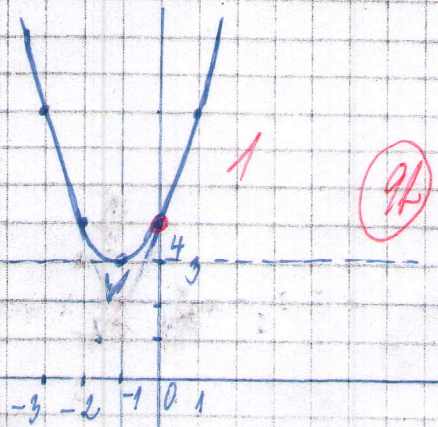
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$T_y[0; 4]$

$y = 0^2 + 2 \cdot 0 + 4 = 4$

c) graf funkce

x	-3	-2	-1	0	1
y	7	4	3	4	7



d) $D(f) = \mathbb{R}; R(f) = [3; \infty)$

2) $f: y = \frac{3}{x-2} + 1$

a) $S[d; 1]$

b) $P_x[-1; 0]$

$0 = \frac{3}{x-2} + 1 \quad | \cdot (x-2)$

$0 = 3 + x - 2$

$x = -1$

c)

x	-2	-1	0	1	3	4	5	6
y	$\frac{1}{4}$	0	$-\frac{1}{2}$	-2	4	$\frac{5}{2}$	2	$\frac{3}{4}$

$T_y[0; -\frac{1}{2}]$

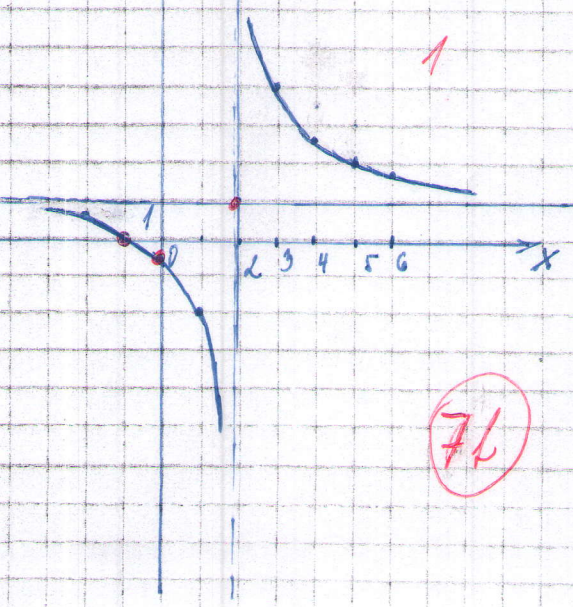
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d) $x \neq 2$

$D(f) = \mathbb{R} \setminus \{2\}$

$R(f) = \mathbb{R} \setminus \{1\}$

16	-	14		1
13	-	11		2
10	-	4		3
6	-	4		4
5	-	0		5



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