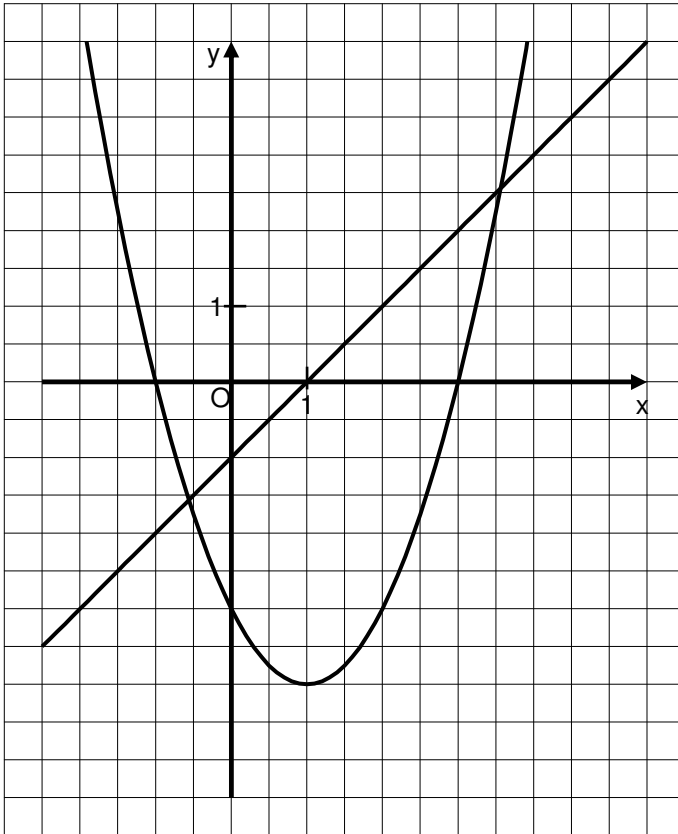


36/1a



$$y = (x-1)^2 - 4$$

$$p: y = x^2 - 2x + 1 - 4$$

$$y = x^2 - 2x - 3$$

$$g: y = x - 1$$

$$g \cap p$$

$$x^2 - 2x - 3 = x - 1$$

$$x^2 - 2x - 3 - x + 1 = 0$$

$$x^2 - 3x - 2 = 0$$

$$a = 1; b = -3; c = -2$$

$$\mathbb{L} = \{-0,6; 3,6\}$$

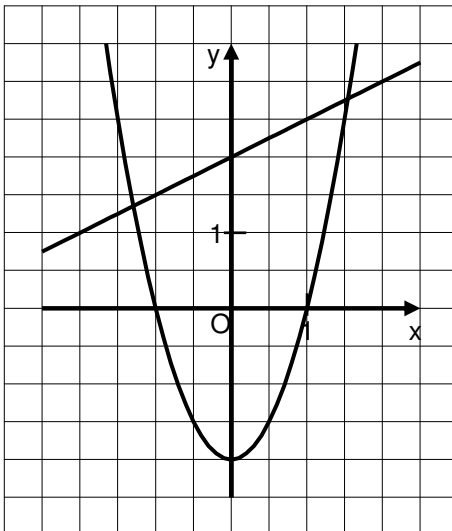
$$x_{1/2} = \frac{3 \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot (-2)}}{2 \cdot 1}$$

$$x_{1/2} = \frac{3 \pm \sqrt{17}}{2}$$

$$x_1 = -0,6 \vee x_2 = 3,6$$

Schnittpunkte: P₁(-0,6 | -1,6), P₂(3,6 | 2,6)

36/1b



$$p: y = 2x^2 - 2$$

$$g: y = 0,5x + 2$$

$$p \cap g$$

$$2x^2 - 2 = 0,5x + 2$$

$$2x^2 - 2 - 0,5x - 2 = 0$$

$$2x^2 - 0,5x - 4 = 0$$

$$x_{1/2} = \frac{0,5 \pm \sqrt{(-0,5)^2 - 4 \cdot 2 \cdot (-4)}}{2 \cdot 2}$$

$$\mathbb{L} = \{-1,29; 1,54\}$$

$$x_{1/2} = \frac{0,5 \pm \sqrt{0,25 + 32}}{4}$$

$$x_{1/2} = \frac{0,5 \pm 5,68}{4}$$

$$x_1 = 1,54 \vee x_2 = -1,29$$

Schnittpunkte: P₁(-1,29 | 1,36), P₂(1,54 | 2,77)

S.36/1c

$g \cap p$

$$-0,25x^2 - 0,5x + 4,25 = -0,25x - 1,25$$

$$-0,25x^2 - 0,5x + 4,25 + 0,25x + 1,25 = 0$$

$$-0,25x^2 - 0,25x + 5,5 = 0$$

$$a = -0,25; b = -0,25; c = 5,5$$

$$x_{1/2} = \frac{0,25 \pm \sqrt{(-0,25)^2 - 4 \cdot (-0,25) \cdot 5,5}}{2 \cdot (-0,25)}$$

$$\mathbb{L} = \{-5,2; 4,2\}$$

$$x_{1/2} = \frac{0,25 \pm \sqrt{5,5625}}{-0,5}$$

$$x_1 = -5,2 \vee x_2 = 4,2$$

Schnittpunkte: $P_1(-5,2 | 0,1)$, $P_2(4,2 | -2,3)$

