

$$m = \tan(\alpha)$$

$$m = 2$$

(bei pos. m)

Steigungswinkel:

$$2 = \tan(\alpha) \quad | \quad \tan^{-1}$$

$$\tan^{-1}(2) = \alpha$$

$$\underline{\underline{63,43^\circ \approx \alpha}}$$

$$-2 = \tan(\alpha) \quad | \quad \tan^{-1}$$

$$m = -2$$

(bei neg. m)

$$\tan^{-1}(-2) = \alpha$$

$$\underline{\underline{-63,43^\circ \approx \alpha}}$$

$$\underline{\underline{360^\circ - 63,43^\circ = 296,57^\circ}}$$

Schnittwinkel: (γ)

$$f_1(x) = -2x + 5$$

$$f_2(x) = 3x - 3$$

$$\tan(\alpha) = m$$

$$\tan(\alpha) = -2 \quad | \quad \tan^{-1}$$

$$\alpha = \tan^{-1}(-2)$$

$$\underline{\underline{\alpha \approx -63,43^\circ}}$$

$$\tan(\beta) = 3 \quad | \quad \tan^{-1}$$

$$\beta = \tan^{-1}(3)$$

$$\underline{\underline{\beta \approx 71,57^\circ}}$$

Schnittwinkel = größer Steigungswinkel - kleiner Steigungsw.

$$\gamma = 71,57^\circ - (-63,43^\circ)$$

$$\gamma = 71,57^\circ + 63,43^\circ$$

$$\underline{\underline{\gamma = 135^\circ}}$$