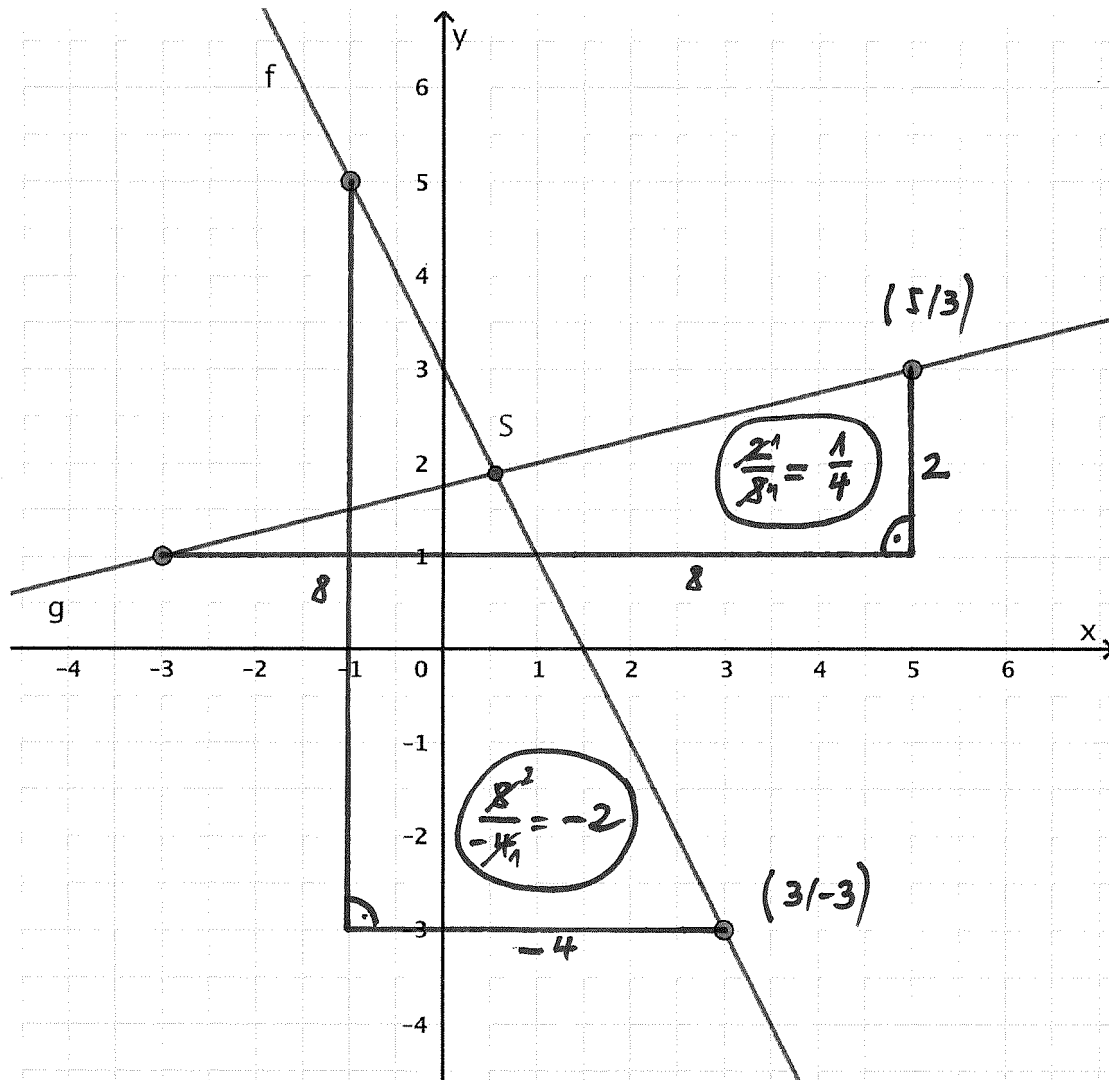


Berechne die Koordinaten des Schnittpunktes S



$$\Rightarrow S \left(\underline{\underline{\frac{5}{9}}} \mid \underline{\underline{\frac{17}{9}}} \right)$$

$$f: y = -2 \cdot x + \dots \curvearrowright -3 = -2 \cdot 3 + \dots \curvearrowright -3 = -6 + \underline{3}$$

$$\rightarrow \underline{y = -2 \cdot x + 3}$$

$$g: y = \frac{1}{4} \cdot x + \dots \curvearrowright 3 = \frac{1}{4} \cdot 5 + \dots \curvearrowright \frac{12}{4} = \frac{5}{4} + \underline{\frac{7}{4}}$$

$$\rightarrow \underline{y = \frac{1}{4} \cdot x + \frac{7}{4}}$$

$$\Rightarrow -2 \cdot x + 3 = \frac{x}{4} + \frac{7}{4}$$

$$-\frac{8x}{4} + \frac{12}{4} = \frac{x}{4} + \frac{7}{4} \quad | \cdot 4$$

$$-8x + 12 = x + 7 \quad | +8x$$

$$12 = 9x + 7 \quad | -7$$

$$5 = 9x \quad | :9$$

$$\underline{\underline{\frac{5}{9} = x}}$$

$$\rightarrow y = -2 \cdot \frac{5}{9} + 3 = -\frac{10}{9} + \frac{27}{9} = \underline{\underline{\frac{17}{9}}}$$