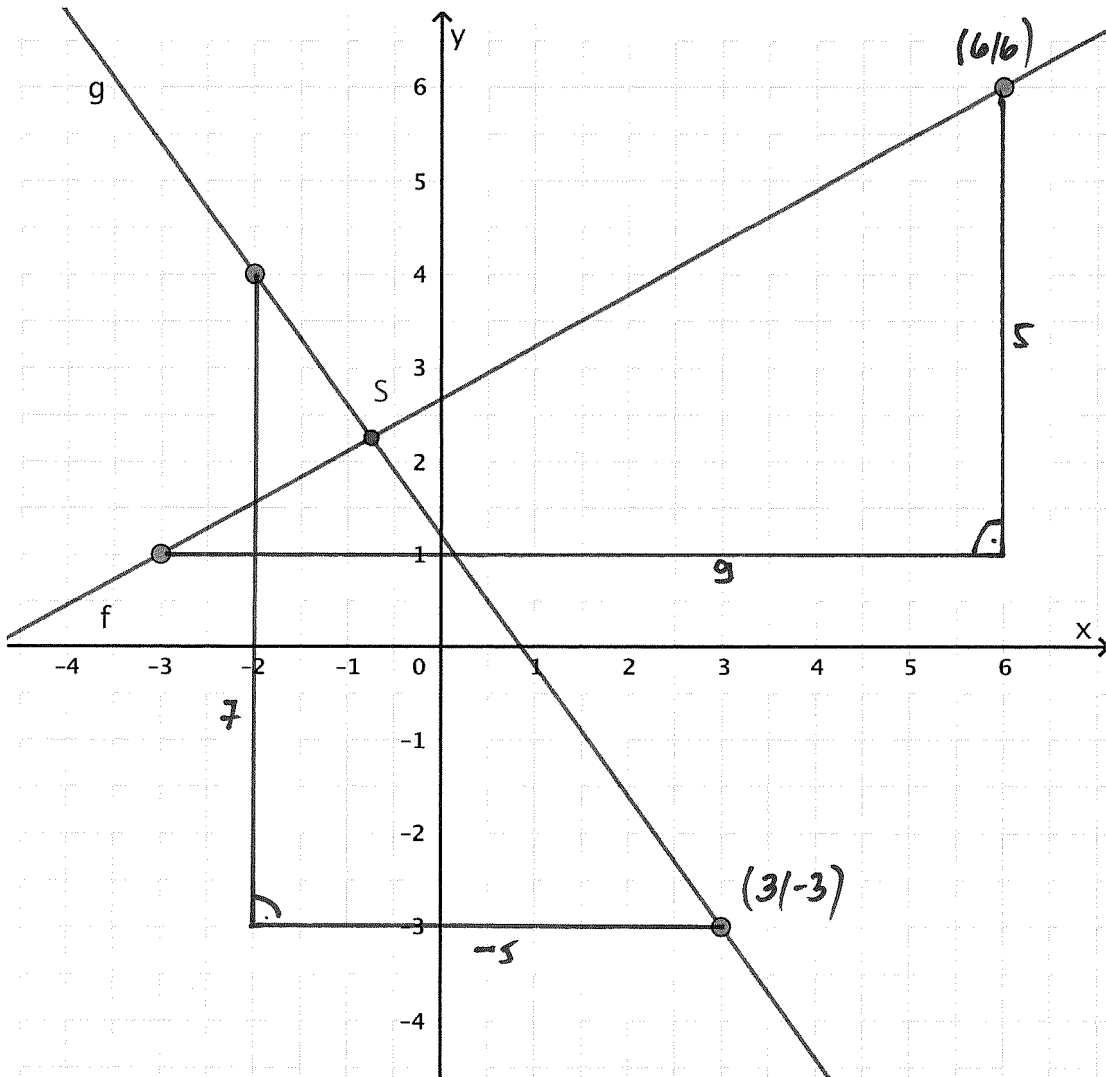


Berechne die Koordinaten des Schnittpunktes S



$$\Rightarrow S \left(\underline{-\frac{3}{4}} \mid \underline{\frac{9}{4}} \right)$$

$$f: y = \frac{5}{9} \cdot x + \dots \quad \curvearrowright \quad 6 = \frac{5}{9} \cdot 6 + \dots$$

$$\Rightarrow \underline{y = \frac{5}{9} \cdot x + \frac{24}{9}}$$

$$\frac{54}{9} = \frac{30}{9} + \frac{24}{9}$$

$$g: y = -\frac{7}{5} \cdot x + \dots \quad \curvearrowright \quad -3 = -\frac{7}{5} \cdot 3 + \dots$$

$$\Rightarrow \underline{y = -\frac{7}{5} \cdot x + \frac{6}{5}}$$

$$-\frac{15}{5} = -\frac{21}{5} + \frac{6}{5}$$

$$\Rightarrow \frac{5x}{9} + \frac{24}{9} = -\frac{7x}{5} + \frac{6}{5}$$

$$\frac{25x}{45} + \frac{120}{45} = -\frac{63x}{45} + \frac{54}{45} \quad | \cdot 45$$

$$25x + 120 = -63x + 54 \quad | +63x$$

$$88x + 120 = 54 \quad | -120$$

$$88x = -66 \quad | :88$$

$$x = \underline{\underline{-\frac{3}{4}}}$$

$$\Rightarrow y = \frac{5}{9} \cdot \left(-\frac{3}{4}\right) + \frac{24}{9} = -\frac{5}{12} + \frac{24}{9}$$

$$= -\frac{15}{36} + \frac{96}{36} = \frac{81}{36} = \underline{\underline{\frac{9}{4}}}$$