

Arbeitsblatt Nr.

Datum:

Name:

Klasse:

Fach:

### Aufgabe i.5 a

$$f(x)=0$$

$$\hookrightarrow -x^2+2x=0 \rightarrow x(-x+2)=0$$

$$\hookrightarrow \underline{x_1=0} \quad ; \quad \underline{x_2=2}$$

### Aufgabe i.5 b:

$$\underline{f'(x)=-2x+2}$$

$$x_1=0$$

$$\hookrightarrow f(0)=0 \rightarrow \underline{b_1=0}$$

$$\underline{f'(0)=2}$$

$$\underline{t_1: y=2x}$$

$$x_2=2$$

$$\hookrightarrow \underline{f(2)=0}$$

$$\underline{f'(2)=-2}$$

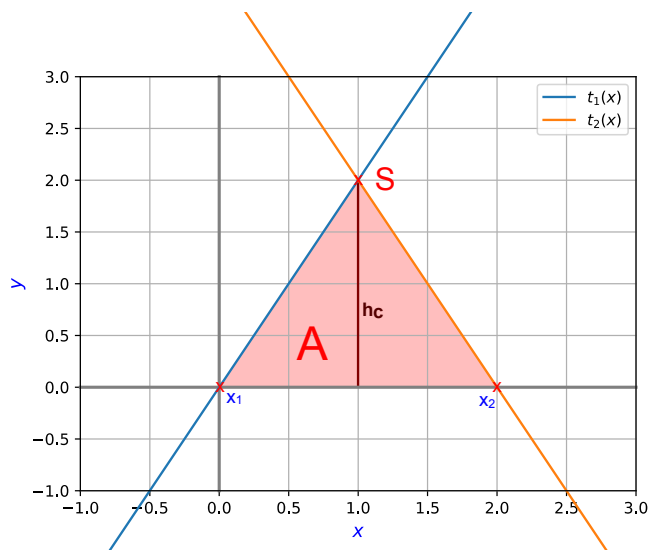
$$\hookrightarrow t_2: y=-2x+b$$

$$\hookrightarrow 0=-2 \cdot 2+b_2 \rightarrow \underline{b_2=4}$$

$$\underline{t_2: y=-2x+4}$$

**Aufgabe i.5 c**

Skizze:



$$S: t_1 \cap t_2$$

$$\hookrightarrow 2x = -2x + 4 \rightarrow 4x = 4 \rightarrow \underline{x=1}$$

$$\hookrightarrow t_1: y = 2 \cdot 1 \rightarrow \underline{y=2}$$

$$\underline{S(1|2)} \rightarrow \underline{h_c=2}$$

$$A = \frac{1}{2} \cdot 2 \cdot 2 \rightarrow \underline{A=2}$$

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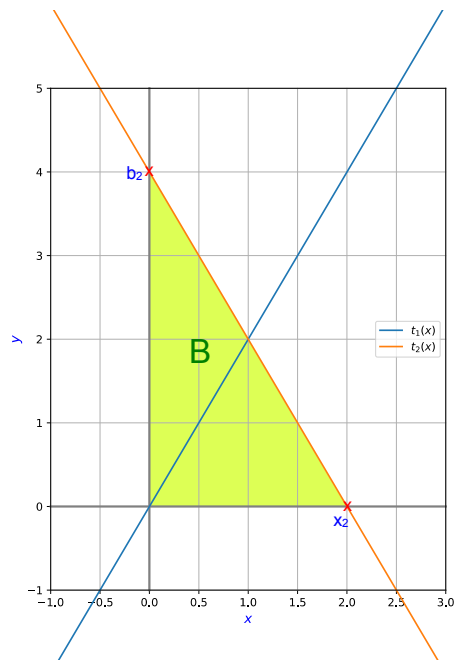
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### Aufgabe i.5 d:

Skizze:



$$\underline{c=2} \ ; \ \underline{h_c=4}$$

$$B = \frac{1}{2} c \cdot h_c \rightarrow B = \frac{1}{2} \cdot 2 \cdot 4 \rightarrow \underline{B=4}$$

$$\frac{B}{A} = \frac{4}{2} \rightarrow \underline{\frac{B}{A} = \frac{2}{1}}$$