Exponentialfunktion zeichnen

Schreibe die Aufgaben erst einmal ab und löse sie im Heft. Vergleiche anschließend die Lösung

1) Zeichne den Graphen zu den Funktionen jeweils in ein extra KoSy.
Gib die Definitions- und Wertemenge sowie die Gleichung der Asymptote an.
Für das KoSy gilt: $-5 \leqq x \leqq 5;\ -5 \leqq y \leqq 5$
Pro Aufgabe max. 4 Minuten

a) $y = 1{,}5^x$ b) $y = 1.2^x$ c) $y = 0{,}7^x$
d) $y = 0{,}25 \cdot 0{,}5^x$ e) $y = -0{,}25 \cdot 0{,}5^x$ f) $y = -1{,}5^x$
g) $y = 2 \cdot 3^x - 2$ h) $y = -3 \cdot 0{,}3^x + 4$ i) $y = -2 \cdot 0{,}8^{x+2} + 3$

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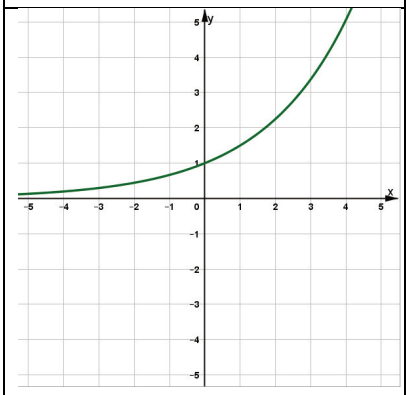
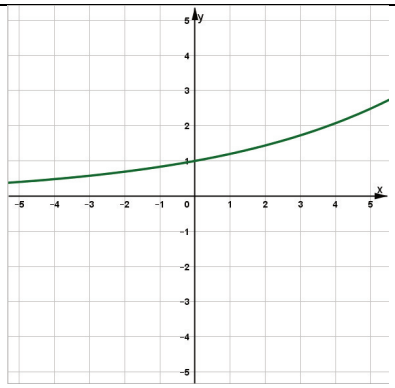
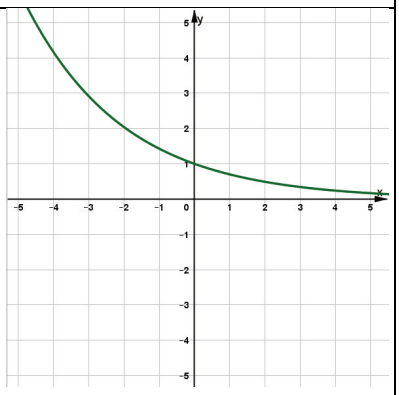
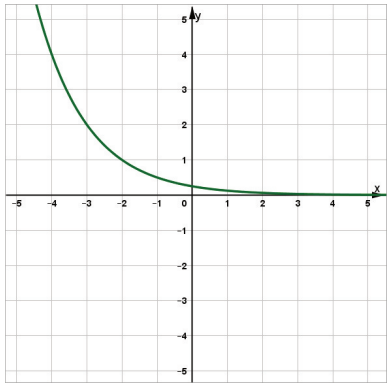
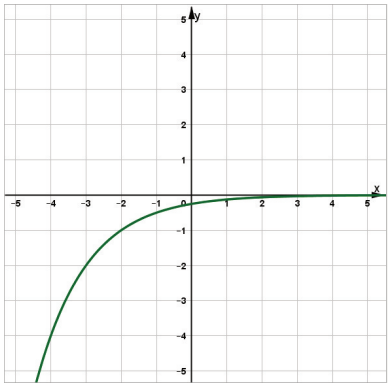
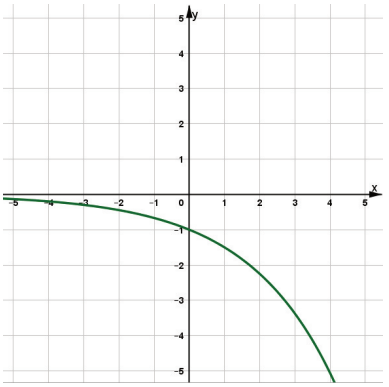
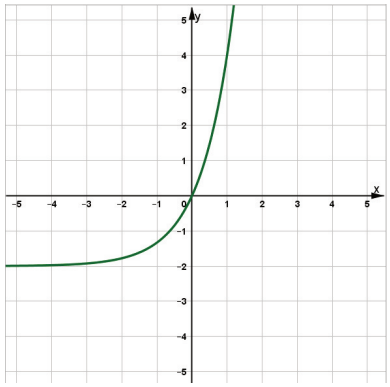
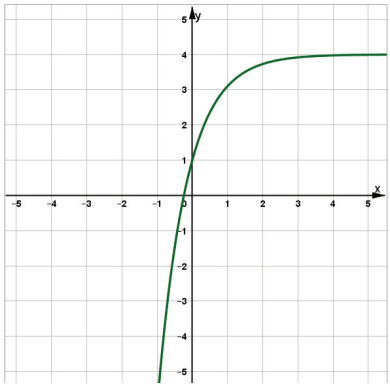
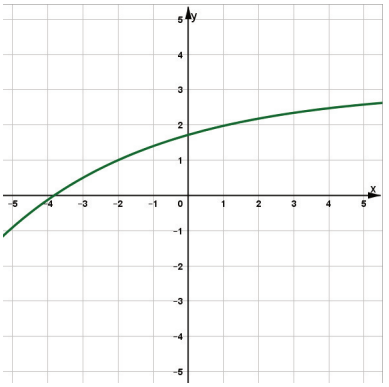
Lösungen

1a) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y > 0\}$ $y = 0$	1b) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y > 0\}$ $y = 0$	1c) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y > 0\}$ $y = 0$
		
1d) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y > 0\}$ $y = 0$	1e) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y < 0\}$ $y = 0$	1f) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y < 0\}$ $y = 0$
		
1g) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y > -2\}$ $y = -2$	1h) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y < 4\}$ $y = 4$	1h) $\mathbb{D} = \mathbb{R}; \mathbb{W} = \{y \mid y < 3\}$ $y = 3$
		

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