Definitionsmenge

Geben Sie die jeweilige Definitionsmenge an
Lösungen:

1. $$\frac{x+x^2}{x^2} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{0\}$$

2. $$\frac{2+6x}{2-6x} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{3\}$$

3. $$\frac{4}{0,2\,x-1,18} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{5.9\}$$

4. $$\frac{4x-3}{-2} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R}$$

5. $$\frac{8b}{(x-2)(3+7x)} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \left\{2;\, -\frac{3}{7}\right\}$$

6. $$\frac{x-2}{x^2-4x+4} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{2\}$$

7. $$\frac{0,1\,x-1}{x\,(x+0,1)(0,1\,x+0,1)} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{-1;\, -0.1\}$$

8. $$\frac{16}{x^2-x^4} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{-1;\, 0;\, 1\}$$

9. $$\frac{1593}{10\,a^3-4\,a^2+0,4\,a} \quad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{0;\, 0.2\}$$

10.

$$\frac{x+6}{(x-6)(x^2-36)} \qquad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{-6;\, 6\}$$

11.

$$\frac{1}{0,0001\, v^4 - 1} \qquad \Rightarrow \quad \mathbb{D} = \mathbb{R} \setminus \{-10;\, 10\}$$