

Aufgabe 1:

a) $3x - 2 = 0$
 $\left[\frac{2}{3}\right]$

b) $2x - 3 = 0$
 $\left[\frac{3}{2}\right]$

c) $-x + 1 = 0$
 $[1]$

Aufgabe 2:

a) $4x - 3 = -3$
 $[0]$

b) $5x + 2 = 1$
 $\left[-\frac{1}{5}\right]$

c) $2x - 2 = -2$
 $[0]$

Aufgabe 3:

a) $x^2 - 10 = 0$
 $[-\sqrt{10}, \sqrt{10}]$

b) $x^2 - 2 = 0$
 $[-\sqrt{2}, \sqrt{2}]$

c) $x^2 - 13 = 0$
 $[-\sqrt{13}, \sqrt{13}]$

Aufgabe 4:

a) $-x^2 = 0$
 $[0]$

b) $-2x^2 - 4 = 0$
No solution

c) $-3x^2 - 1 = 0$
No solution

Aufgabe 5:

a) $5x^2 + 3x = 0$
 $\left[-\frac{3}{5}, 0\right]$

b) $5x^2 - 4x = 0$
 $\left[0, \frac{4}{5}\right]$

c) $x^2 - 4x = 0$
 $[0, 4]$

Aufgabe 6:

a) $x^2 - 2x = 0$
 $[0, 2]$

b) $x^2 - 3x + 1 = 0$
 $\left[-\sqrt{5}/2 + \frac{3}{2}, \sqrt{5}/2 + \frac{3}{2}\right]$

c) $x^2 - 2x + 4 = 0$
No solution