h) $x \cdot (2x^2 - 14x + 20) = 0$ | x ausklammern

$x_1 = 0$

:2 → $x^2 - 7x + 10 = 0$

$x_2 = 2$

$x_3 = 5$

i) $\mathbb{L} = \{2; -3; 1\}$

j) Nullstelle raten: $x_1 = -2$

$(x^3 + 4x^2 + x - 6) : (x + 2) = x^2 + 2x - 3$

$-(x^3 + 2x^2)$

$2x^2 + x$

$x_2 = 1$

$x_3 = -3$

0

k) $x^4 - 5x^2 + 4 = 0$ Biquadratische Gleichung

Subst.: $z = x^2$

$z^2 - 5z + 4 = 0$

$z_1 = 4 = x^2 \rightarrow x_{1,2} = \pm 2$

$z_2 = 1 = x^2 \rightarrow x_{3,4} = \pm 1$

l) $x^7 - 9x^4 + 8x = 0$

$x \cdot (x^6 - 9x^3 + 8) = 0$

$x_1 = 0$

→ Subst.: $z = x^3$: $z^2 - 9z + 8 = 0$

$z_1 = 8 \rightarrow x_2 = 2$

$z_2 = 1 \rightarrow x_3 = 1$