Löse die folgenden biquadratischen Gleichungen $ax^4 + bx^2 + c = 0$

$-7x^4 + 98x^2 - 315 = 0$
$x_1 = 2.24 \quad x_2 = -2.24$
$x_3 = 3 \quad x_4 = -3$

$3x^4 - 21x^2 + 30 = 0$
$x_1 = 2.24 \quad x_2 = -2.24$
$x_3 = 1.41 \quad x_4 = -1.41$

$-9.5x^4 = 0$
$x_1 = 0 \quad x_2 = 0$
$x_3 = 0 \quad x_4 = 0$

$-4.5x^4 - 36x^2 + 40.5 = 0$
$x_1 = 1 \quad x_2 = -1$
$x_3 = \lozenge \quad x_4 = \lozenge$

$-8x^4 - 48x^2 - 64 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$-2.5x^4 + 20x^2 - 40 = 0$
$x_1 = 2 \quad x_2 = -2$
$x_3 = 2 \quad x_4 = -2$

$8x^4 - 104x^2 + 336 = 0$
$x_1 = 2.45 \quad x_2 = -2.45$
$x_3 = 2.65 \quad x_4 = -2.65$

$-0.5x^4 - 5x^2 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = 0 \quad x_4 = 0$

$-9.5x^4 + 19x^2 = 0$
$x_1 = 0 \quad x_2 = 0$
$x_3 = 1.41 \quad x_4 = -1.41$

$-6x^4 - 24x^2 - 24 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$-8.5x^4 + 85x^2 = 0$
$x_1 = 3.16 \quad x_2 = -3.16$
$x_3 = 0 \quad x_4 = 0$

$2x^4 + 38x^2 + 180 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$4.5x^4 - 31.5x^2 = 0$
$x_1 = 2.65 \quad x_2 = -2.65$
$x_3 = 0 \quad x_4 = 0$

$6x^4 + 60x^2 + 144 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$3.5x^4 + 31.5x^2 + 70 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$1.5x^4 + 3x^2 - 22.5 = 0$
$x_1 = 1.73 \quad x_2 = -1.73$
$x_3 = \lozenge \quad x_4 = \lozenge$

$5.5x^4 + 27.5x^2 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = 0 \quad x_4 = 0$

$-5x^4 = 0$
$x_1 = 0 \quad x_2 = 0$
$x_3 = 0 \quad x_4 = 0$

$5.5x^4 + 11x^2 + 5.5 = 0$
$x_1 = \lozenge \quad x_2 = \lozenge$
$x_3 = \lozenge \quad x_4 = \lozenge$

$0.5x^4 - x^2 - 4 = 0$
$x_1 = 2 \quad x_2 = -2$
$x_3 = \lozenge \quad x_4 = \lozenge$