Task card 1 Solving Polynomial Equations by Fa...

Solve: $x^3 - 8x^2 - 16x + 128 = 0$

Task card 2 Solving Polynomial Equations by Fa...

Solve: $x^4 - 26x^2 + 25 = 0$

Task card 3 Solving Polynomial Equations by Fa...

Solve: $x^3 + 7x^2 = -6x$

Task card 4 Solving Polynomial Equations by Fa...

Solve: $x^4 - 41x^2 = -400$

Task card 5 Solving Polynomial Equations by Fa...

Solve: $x^3 + 2x^2 - 25x - 50 = 0$

Task card 6 Solving Polynomial Equations by Fa...

Solve: $2x^3 - 20x^2 = -18x$

Task card 7 Solving Polynomial Equations by Fa...

Solve: $x^3 - 7x^2 - 4x + 28 = 0$

Task card 8 Solving Polynomial Equations by Fa...

Solve: $x^4 - 45x^2 = -324$

Task card 9 Solving Polynomial Equations by Fa...

Solve: $x^3 + 9x^2 - 16x = 144$

Task card 10 Solving Polynomial Equations by Fa...

Solve: $x^4 - 34x^2 + 225 = 0$

Task card 11 Solving Polynomial Equations by Fa...

Solve: $x^3 - 10x^2 = -16x$

Task card 12 Solving Polynomial Equations by Fa...

Solve: $x^3 - 3x^2 - x = -3$

Task card 13 Solving Polynomial Equations by Fa...

Solve: $2x^3 + 12x^2 = -16x$

Task card 14 Solving Polynomial Equations by Fa...

Solve: $x^3 + 7x^2 - 36x = 252$

Task card 15 Solving Polynomial Equations by Fa...

Solve: $x^4 - 41x^2 + 400 = 0$

Task card 16 Solving Polynomial Equations by Fa...

Solve: $x^3 + 2x^2 - 9x - 18 = 0$

Task card 17 Solving Polynomial Equations by Fa...

Solve: $x^3 + 2x^2 - 24x = 0$

Task card 18 Solving Polynomial Equations by Fa...

Solve: $x^4 - 13x^2 = -36$

Task card 19 Solving Polynomial Equations by Fa...

Solve: $x^3 - 7x^2 - x = -7$

Task card 20 Solving Polynomial Equations by Fa...

Solve: $3x^3 + 30x^2 = -72x$

Task card 21 Solving Polynomial Equations by Fa...

Solve: $x^3 + 8x^2 - 9x - 72 = 0$

Task card 22 Solving Polynomial Equations by Fa...

Solve: $x^4 - 10x^2 = -9$

Task card 23 Solving Polynomial Equations by Fa...

Solve: $x^3 + 8x^2 - 36x - 288 = 0$

Task card 24 Solving Polynomial Equations by Fa...

Solve: $x^4 - 25x^2 + 144 = 0$

Solving Polynomial Equations by Factoring Task Cards

Recording sheet · Grade 11 · Find all real solutions. List them in increasing order, separated by commas (for example: -3, 0, 2).

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Solving Polynomial Equations by Factoring Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. -4, 4, 8	**2.** -5, -1, 1, 5	**3.** -6, -1, 0
4. -5, -4, 4, 5	**5.** -5, -2, 5	**6.** 0, 1, 9
7. -2, 2, 7	**8.** -6, -3, 3, 6	**9.** -9, -4, 4
10. -5, -3, 3, 5	**11.** 0, 2, 8	**12.** -1, 1, 3
13. -4, -2, 0	**14.** -7, -6, 6	**15.** -5, -4, 4, 5
16. -3, -2, 3	**17.** -6, 0, 4	**18.** -3, -2, 2, 3
19. -1, 1, 7	**20.** -6, -4, 0	**21.** -8, -3, 3
22. -3, -1, 1, 3	**23.** -8, -6, 6	**24.** -4, -3, 3, 4