Task card 1 Solving Polynomial Equations by Fa...

Solve: $x^3 + 4x^2 - 21x = 0$

Task card 2 Solving Polynomial Equations by Fa...

Solve: $x^3 - 5x^2 - 4x + 20 = 0$

Task card 3 Solving Polynomial Equations by Fa...

Solve: $x^3 - x = 0$

Task card 4 Solving Polynomial Equations by Fa...

Solve: $x^3 - 6x^2 - 9x + 54 = 0$

Task card 5 Solving Polynomial Equations by Fa...

Solve: $x^3 = 9x$

Task card 6 Solving Polynomial Equations by Fa...

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

Task card 7 Solving Polynomial Equations by Fa...

Solve: $x^3 - 49x = 0$

Task card 8 Solving Polynomial Equations by Fa...

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

Task card 9 Solving Polynomial Equations by Fa...

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

Task card 10 Solving Polynomial Equations by Fa...

Solve: $x^4 - 10x^2 + 9 = 0$

Task card 11 Solving Polynomial Equations by Fa...

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

Task card 12 Solving Polynomial Equations by Fa...

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

Task card 13 Solving Polynomial Equations by Fa...

Solve: $x^3 - 7x^2 - 9x + 63 = 0$

Task card 14 Solving Polynomial Equations by Fa...

Solve: $2x^3 - 14x^2 = -12x$

Task card 15 Solving Polynomial Equations by Fa...

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

Task card 16 Solving Polynomial Equations by Fa...

Solve: $x^4 - 5x^2 + 4 = 0$

Task card 17 Solving Polynomial Equations by Fa...

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

Task card 18 Solving Polynomial Equations by Fa...

Solve: $x^4 - 20x^2 + 64 = 0$

Task card 19 Solving Polynomial Equations by Fa...

Solve: $x^3 - 25x = 0$

Task card 20 Solving Polynomial Equations by Fa...

Solve: $x^4 - 13x^2 + 36 = 0$

Task card 21 Solving Polynomial Equations by Fa...

Solve: $x^3 - 7x^2 - 25x = -175$

Task card 22 Solving Polynomial Equations by Fa...

Solve: $3x^3 - 36x^2 + 81x = 0$

Task card 23 Solving Polynomial Equations by Fa...

Solve: $x^3 - x^2 - 25x = -25$

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 · Medium

The answers online

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