

Factoring Polynomials-Level 2

No Calculator

1. $(x^3)((x^2) + 2) = 24x$, What are the two possible values of X^2 ?
2. $(x^3)((x^2) - 4) = 12x$, What are the two possible values of X^2 ?
3. $(x^3)((x^2) - 14) = -49x$, What are the two possible values of X^2 ?
4. $(x^3)((x^2) - 1) = 30x$, What are the two possible values of X^2 ?
5. $(x^3)((x^2) - 2) = 35x$, What are the two possible values of X^2 ?
6. $(x^3)((x^2) + 3) = -2x$, What are the two possible values of X^2 ?
7. $(x^3)((x^2) - 12) = -36x$, What are the two possible values of X^2 ?
8. $(x^3)((x^2) + 1) = 42x$, What are the two possible values of X^2 ?
9. $(x^3)((x^2) - 4) = -4x$, What are the two possible values of X^2 ?
10. $(x^3)((x^2) - 2) = -x$, What are the two possible values of X^2 ?
11. $(x^3)((x^2) + 4) = 5x$, What are the two possible values of X^2 ?
12. $(x^3)((x^2) - 2) = -x$, What are the two possible values of X^2 ?
13. $(x^3)((x^2) - 5) = -4x$, What are the two possible values of X^2 ?
14. $(x^3)((x^2) - 1) = 30x$, What are the two possible values of X^2 ?
15. $(x^3)((x^2) - 9) = -18x$, What are the two possible values of X^2 ?
16. $(x^3)((x^2) - 6) = 7x$, What are the two possible values of X^2 ?
17. $(x^3)((x^2) + 2) = 15x$, What are the two possible values of X^2 ?
18. $(x^3)((x^2) - 4) = 12x$, What are the two possible values of X^2 ?
19. $(x^3)((x^2) - 4) = 21x$, What are the two possible values of X^2 ?
20. $(x^3)((x^2) - 2) = 15x$, What are the two possible values of X^2 ?

What are the real possible values of x:

1. $x^3 - 4x^2 + 2x - 8 = 0$
2. $x^3 - 2x^2 + 5x - 10 = 0$
3. $x^3 - 7x^2 - 3x + 21 = 0$
4. $x^3 - 7x^2 - 2x + 14 = 0$
5. $x^3 + 4x^2 + 4x + 16 = 0$
6. $x^3 + 5x^2 + 5x + 25 = 0$
7. $x^3 - 2x^2 + 4x - 8 = 0$
8. $x^3 + x^2 + x + 1 = 0$
9. $x^3 + 5x^2 - x - 5 = 0$
10. $x^3 + 7x^2 + 2x + 14 = 0$
11. $x^3 + x^2 + 7x + 7 = 0$
12. $x^3 + 7x^2 + 4x + 28 = 0$
13. $x^3 + x^2 + 4x + 4 = 0$
14. $x^3 + 7x^2 - 5x - 35 = 0$
15. $x^3 - x^2 + 6x - 6 = 0$
16. $x^3 + 4x^2 + 7x + 28 = 0$
17. $x^3 + 6x^2 + x + 6 = 0$
18. $x^3 + 2x^2 + 2x + 4 = 0$
19. $x^3 + x^2 + 2x + 2 = 0$
20. $x^3 - 6x^2 - 6x + 36 = 0$

1. $x = -6, x = 4$
2. $x = -2, x = 6$
3. $x = 7, x = -7$
4. $x = 6, x = -5$
5. $x = 7, x = -5$
6. $x = -2, x = -1$
7. $x = 6, x = -6$
8. $x = -7, x = 6$
9. $x = 2, x = -2$
10. $x = 1, x = -1$
11. $x = 1, x = -5$
12. $x = 1, x = 1$
13. $x = 1, x = 4$
14. $x = -5, x = 6$
15. $x = 6, x = 3$
16. $x = 7, x = -1$
17. $x = -5, x = 3$
18. $x = -2, x = 6$
19. $x = 7, x = -3$
20. $x = 5, x = -3$

1. $x = 4$
2. $x = 2$
3. $x = 7, x = \sqrt{3}$
4. $x = 7, x = \sqrt{2}$
5. $x = -4$
6. $x = -5$
7. $x = 2$
8. $x = -1$
9. $x = -5, x = 1$
10. $x = -7$
11. $x = -1$
12. $x = -7$
13. $x = -1$
14. $x = -7, x = \sqrt{5}$
15. $x = 1$
16. $x = -4$
17. $x = -6$
18. $x = -2$
19. $x = -1$
20. $x = 6, x = \sqrt{6}$