

Answers

1. $3(x + 12)$
2. $4x(x + 4)$
3. $(x - 10)(x - 4)$
4. $(x + 6)(x - 2)$
5. $(x + 12)(x - 12)$
6. $(x^2 + 4)(x + 2)(x - 2)$
7. $(9x + 7)(9x - 7)$
8. $2(5x + 6)(5x - 6)$
9. $2x(x - 9)(x + 1)$
10. $(4x - 3)(x + 5)$
11. $(-8x + 1)(x + 2)$
12. $(x^2 + 5)(x - 3)$
13. $(5r - 3)(s + 5)$
14. $(5x - 4)(25x^2 + 20x + 16)$
15. $(x + 4y)(x^2 - 4xy + 16y^2)$
16. $x = 7$ and $x = 1$
17. $x = 10 \pm 4\sqrt{3}$
18. $x = -1$ and $x = -9$
19. $x = 4$ and $x = -10$
20. $x = 5$ and $x = -5$
21. $x = 9$ and $x = -1$
22. $x = -2$ and $x = \frac{3}{2}$
23. $x = \frac{-7 \pm \sqrt{193}}{18}$
24. $x = \frac{-3 \pm \sqrt{17}}{2}$
25. $x = 2$, $x = -2$, and $x = 5$

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