

1. Multiply $a + b$ by x ; by y ; by $-x$; by $-y$.
2. Multiply $a + b$ by $x + y$; by $x - y$; by $-x - y$.
3. Multiply $a - b$ by $x + y$; by $x - y$; by $-x - y$.
4. Multiply $a + 1$ by $a + 1$; by $a - 1$; by $1 - a$.
5. Multiply $3a + 2b - 4c$ by $2x$; by $-2xy$; by $3a$.
6. Multiply $2ax + 3a^2 - 4$ by $2a$; by $2ax$; by $2a - 1$.
7. Multiply $4a^2b + 2ab^2 + b^3$ by a ; by $a - 1$; by $1 - a$.
8. Multiply $a + b + c$ by $a + b$; by $a - b$; by $a + b + c$.
9. Multiply $2x^2y - 4xy^2 + y^3$ by x ; by $x + 1$; by $x - 1$.
10. Multiply $x + y$ by $x + y$; by $x - y$; by $x^2 + y^2$; by $x^2 - y^2$.
11. Multiply $x^2y + xy$ by $x + y$; by $xy - 1$; by x^2y ; by xy^2 .
12. Multiply together $x + 1$, $x - 2$, $x + 3$, $x - 4$.
13. $(x + y)^2 = ?$ $(x - y)^2 = ?$ $(x + 1)^2 = ?$
14. $(x - 1)^2 = ?$ $(2x + 2y)^2 = ?$ $(2x - 2y)^2 = ?$
15. $(a + b)^2 = ?$ $(a - b)^2 = ?$ $(a + 1)^2 = ?$
16. $(ab + cd)^2 = ?$ $(ab + 1)^2 = ?$ $(x^2 + y^2)^2 = ?$
17. $(a + 1) \times (a - 1) + (a + 1) \times (a + 1) = ?$
18. $(x + y) \times (x + y) + (x - y) \times (x - y) = ?$
19. $(a^2 + 2ab + b^2) \times (a + b) - (a^2 + 2ab + b^2) \times (a - b) = ?$
20. Divide $ab + ac + ad$ by a ; by ab ; by ac ; by ad .
21. Divide $6a^2b + 12a^2 + 18ab$ by ab ; by $6ab$; by $6b$.
22. Divide $(a + b)^3$ by $(a + b)^2$; by $(a + b)^3$; by $(a + b)$.
23. Divide $(a - b)^4$ by $(a - b)^3$; by $(a - b)^2$; by $(a - b)$.
24. Divide $a^3 + 2ab + b^2$ by $a + b$; by $(a + b)^2$.
25. Divide $(a^2 - b^2)$ by $a + b$; by $a - b$.
26. Divide $a^3 + 3a^2b + 3ab^2 + b^3$ by $a + b$; by $a^2 + 2ab + b^2$.
27. Divide $4x^2 - 1$ by $2x - 1$; by $2x + 1$.
28. Divide $4x^2 - 4x + 1$ by $1 - 2x$; by $2x - 1$.
29. Divide $ab - ac$ by a ; by $-a$; by $b - c$.
30. Divide $(ac - bc) + (ad - bd)$ by $a - b$.
31. Divide $6 + 17x - 3x^2 - 20x^3$ by $3 + 4x$.
32. Divide $a^4 - b^4$ by $a^2 + b^2$; by $a^2 - b^2$.
33. Divide $4x^2 + 3xy + 8x + 3y + 4$ by $x + 1$.
34. Divide $6x^2 + 2xy + 2x - 4y^2 + 2y$ by $2x + 2y$.
35. Divide $6x^2 + 4xy - 12x - 8y$ by $2x - 4$.