

Factoring Using Distributive Property

Multiplying	Factoring
$3(a + b) =$	
$x(y - z) =$	
$6y(2x + 1) =$	

Factor each polynomial.

1. $3x + 6y$	2. $4n^2 - 12n$
3. $15ab^2 - 3b^3$	4. $-3ax + 9ay$
5. $5m - 10mn - 15$	6. $4x^3 + 6x^2 - 12xy$
7. $4c + ac + bc$	8. $25x - 10x^2 + 15xy$
9. $cdh^3 + c^2dh + c^3d^2h^2$	10. $7a^2b - 7ab^2$

11. $14x^2 + 7xy + 21x^3y^2$	12. $7n^2 - 56mn + 21m^2n^3$
13. $25xy - 50xz + 100x$	14. $14 - 42p + 7$
15. $8x^2 - 12xy - 16xz$	16. $3x^3 - 15x^2 - 6x$
17. $4m^3n^5 + 12m^3n^4 - 16m^2n^5$	18. $5xy - 2xy^2 + 3x^2y$
19. $3a^2 + 4a^3 - 12a^4b$	20. $8a^3 - 4ax^2 - 12a^2x^2$