

Unit 8 – Polynomials and Factoring Test

Perform the indicated operation on the following polynomials.

1. add $3a - 2b + 6$; $-3a + 2b - 10$

2. subtract $2x + xy - 2y$ from $x - xy + 3y$

Find the product of the following polynomials.

3. $3x(4x + y) =$

4. $2x(1 + 5y) =$

5. $5a(a + 2b - 3) =$

6. $3bc(a + b - c) =$

Factor the following polynomials.

7. $30x + 60$

8. $9x + 18y - 27$

Find the product of the following binomials.

9. $(x + 4)(x + 7)$

10. $(x + 4)(2x + 2)$

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Find the product of the following Special product.

11. $(x + 7)(x - 7)$

12. $(2 + 3y)^2$

13. $(x + 3y)(x - 3y)$

14. $(y - 5)^2$

Factor the Following Polynomials.

15. $x^2 + 15x + 56$

16. $y^2 - 19y + 34$

Find the Following Special product.

17. $x^2 - 64$

18. $y^2 - 14y + 49$

Factor the following by grouping.

19. $d^2 + 2d + 3d + 6$

20. $x^2 - 2nx + 2ax - 4an$