

Name: _____ Period: _____ Date: _____

Multiplying and Factoring Bell Work

Find the product of the following monomials

1. $3x(2y)$

2. $6x(3xyz)$

3. $(2ab)(9bc)$

4. $4a(8ab)$

Find the product of monomials by polynomials

5. $6a(3a + 2)$

6. $5x(2x + 2y - 9)$

Factor the following polynomials

7. $15x + 25y$

8. $9x + 18xy$

9. $30a^2 - 24ab + 12a$

10. $6yz + 9xy - 3y$

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Answer:

Find the product of the following monomials

1. $3x(2y) = 6xy$

2. $6x(3xyz) = 18x^2yz$

3. $(2ab)(9bc) = 18ab^2c$

4. $4a(8ab) = 32a^2b$

Find the product of monomials by polynomials

5. $6a(3a + 2) = 18a^2 + 12a$

6. $5x(2x + 2y - 9) = 10x^2 + 10xy - 45x$

Factor the following polynomials

7. $15x + 25y = 5(3x + 5y)$

8. $9x + 18xy = 9x(1 + 2y)$

9. $30a^2 - 24ab + 12a = 6a(5a - 4b + 2)$

10. $6yz + 9xy - 3y = 3y(2z + 3x - 1)$