

Name: _____

Polynomial Practice

Simplify the following polynomials as much as you can. SHOW your work to receive credit.

1. $3x^2(2y + 5x)$

2. $xy(5x^2 + 8x - 7)$

3. $-4c^2d^3(5cd^2 + 3c^2d)$

Answer: _____

Answer: _____

Answer: _____

4. $2xy(3x^2 - xy + 7)$

5. $xy^2(x^2 + 3xy + 9)$

6. $2r^2(6r^3 + 14r^2 - 30r + 14)$

Answer: _____

Answer: _____

Answer: _____

7. $-3x(8x^2 + xy - 5y^2)$

8. $-7x^2y^4(-3x^2 + 6xy - 4y^2)$

9. $-8mn^5(5m^2 + 5mn + n^2)$

Answer: _____

Answer: _____

Answer: _____

10. $-5xy^2(-8x^2 + xy - 8y^2)$

Answer: _____

Simplify the following polynomials as much as you can. SHOW your work to receive credit.

11. $-7xy^3(-2x^2 + 4xy + 4y^2)$ 12. $-3y(-6x^2 + xy - 6y^2)$ 13. $4n(-5m^2 - 8mn + 6n^2)$

Answer: _____	Answer: _____	Answer: _____
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14. $4x^2y^2(-8x^2 + 3xy + 7y^2)$ 15. $-7(-4u^2 - 2uv + 2v^2)$ 16. $8n(-3m^2 + 3mn + 6n^2)$

Answer: _____	Answer: _____	Answer: _____
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17. $6a(a^2 - 8ab + 4b^2)$ 18. $-x^3y^2(2x^2 + 7xy - 3y^2)$ 19. $-8a^3b(8a^2 + 6ab - 5b^2)$

Answer: _____	Answer: _____	Answer: _____
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