

Name : _____

Score : _____

Teacher : _____

Date : _____

Multiplying Monomials and Polynomials

Simplify each expression.

1) $6y^3(4y^2 - 7y - 3)$

6) $3(5r^2 - 2rz - 9z^2)$

2) $5g^2(3g^2 + 7gd - 2d^2)$

7) $6y^2(2y^2 - 4y - 9)$

3) $6x(4x^2 - 2x - 7)$

8) $4(2h + 7y)$

4) $5(3s^2 - 2s + 4)$

9) $8g^3(4g^2 - 3gh + 2h^2)$

5) $2y(7y^2 - 5yb + 9b^2)$

10) $3c(9c + 5)$



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Simplify each expression.

1) $6y^3(4y^2 - 7y - 3)$

$$24y^5 - 42y^4 - 18y^3$$

6) $3(5r^2 - 2rz - 9z^2)$

$$15r^2 - 6rz - 27z^2$$

2) $5g^2(3g^2 + 7gd - 2d^2)$

$$15g^4 + 35g^3d - 10d^2g^2$$

7) $6y^2(2y^2 - 4y - 9)$

$$12y^4 - 24y^3 - 54y^2$$

3) $6x(4x^2 - 2x - 7)$

$$24x^3 - 12x^2 - 42x$$

8) $4(2h + 7y)$

$$8h + 28y$$

4) $5(3s^2 - 2s + 4)$

$$15s^2 - 10s + 20$$

9) $8g^3(4g^2 - 3gh + 2h^2)$

$$32g^5 - 24g^4h + 16g^3h^2$$

5) $2y(7y^2 - 5yb + 9b^2)$

$$14y^3 - 10y^2b + 18b^2y$$

10) $3c(9c + 5)$

$$27c^2 + 15c$$

