

Multiplying a Monomial by a Binomial (G)

Simplify each expression.

$$1. \ -6w^5(7w^4 - 5w^3)$$

$$2. \ 8r^4(8r^5 + 3r^4)$$

$$3. \ -2s^3(-6s^5 - 8s^4)$$

$$4. \ -2v^4(-6v^4 + 7v^3)$$

$$5. \ 2g(2g^5 + 7g^4)$$

$$6. \ -6a^3(a^3 + 4a^2)$$

$$7. \ 3y^5(9y^2 - 8y)$$

$$8. \ -k^4(-9k^4 + k^3)$$

$$9. \ -5x^3(-8x + 5)$$

$$10. \ 6g^3(-9g^4 - g^3)$$

Multiplying a Monomial by a Binomial (G) Answers

Simplify each expression.

$$1. \ -6w^5(7w^4 - 5w^3)$$
$$= -42w^9 + 30w^8$$

$$2. \ 8r^4(8r^5 + 3r^4)$$
$$= 64r^9 + 24r^8$$

$$3. \ -2s^3(-6s^5 - 8s^4)$$
$$= 12s^8 + 16s^7$$

$$4. \ -2v^4(-6v^4 + 7v^3)$$
$$= 12v^8 - 14v^7$$

$$5. \ 2g(2g^5 + 7g^4)$$
$$= 4g^6 + 14g^5$$

$$6. \ -6a^3(a^3 + 4a^2)$$
$$= -6a^6 - 24a^5$$

$$7. \ 3y^5(9y^2 - 8y)$$
$$= 27y^7 - 24y^6$$

$$8. \ -k^4(-9k^4 + k^3)$$
$$= 9k^8 - k^7$$

$$9. \ -5x^3(-8x + 5)$$
$$= 40x^4 - 25x^3$$

$$10. \ 6g^3(-9g^4 - g^3)$$
$$= -54g^7 - 6g^6$$