

Multiplying a Monomial by a Binomial (A)

Simplify each expression.

$$1. \ -3n^3(-8n^3 - 3n^2)$$

$$2. \ 9a^5(-8a^4 + 2a^3)$$

$$3. \ 9h^4(-9h - 9)$$

$$4. \ 4b(9b^5 + 7b^4)$$

$$5. \ -8v^3(3v^5 + 3v^4)$$

$$6. \ -2a^2(-8a^2 + 9a)$$

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

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

$$9. \ -2p^3(-4p^4 - 7p^3)$$

$$10. \ 3x^3(-2x^5 + 9x^4)$$

Multiplying a Monomial by a Binomial (A) Answers

Simplify each expression.

$$1. \ -3n^3(-8n^3 - 3n^2)$$
$$= 24n^6 + 9n^5$$

$$2. \ 9a^5(-8a^4 + 2a^3)$$
$$= -72a^9 + 18a^8$$

$$3. \ 9h^4(-9h - 9)$$
$$= -81h^5 - 81h^4$$

$$4. \ 4b(9b^5 + 7b^4)$$
$$= 36b^6 + 28b^5$$

$$5. \ -8v^3(3v^5 + 3v^4)$$
$$= -24v^8 - 24v^7$$

$$6. \ -2a^2(-8a^2 + 9a)$$
$$= 16a^4 - 18a^3$$

$$7. \ 7a^3(-3a^4 + 6a^3)$$
$$= -21a^7 + 42a^6$$

$$8. \ -6p(2p^3 - 4p^2)$$
$$= -12p^4 + 24p^3$$

$$9. \ -2p^3(-4p^4 - 7p^3)$$
$$= 8p^7 + 14p^6$$

$$10. \ 3x^3(-2x^5 + 9x^4)$$
$$= -6x^8 + 27x^7$$