

## Multiplying Two Binomials (C)

Simplify each expression.

1.  $(-v^5 + 4v^4)(v + 2)$

2.  $(-8f - 1)(-6f - 5)$

3.  $(-5v^2 - 5v)(5v^5 + v^4)$

4.  $(3b^3 + 7b^2)(6b^4 + 4b^3)$

5.  $(-4s^2 - 7s)(-4s^4 + s^3)$

6.  $(9v^2 - 7v)(4v^2 - 3v)$

7.  $(7h + 9)(-9h^2 + 4h)$

8.  $(-8h^2 + 7h)(4h^2 + 3h)$

9.  $(c^3 + 4c^2)(8c^4 - 7c^3)$

10.  $(m^5 - 6m^4)(-2m + 6)$

## Multiplying Two Binomials (C) Answers

Simplify each expression.

$$\begin{aligned} 1. & (-v^5 + 4v^4)(v + 2) \\ & = -v^6 + 2v^5 + 8v^4 \end{aligned}$$

$$\begin{aligned} 2. & (-8f - 1)(-6f - 5) \\ & = 48f^2 + 46f + 5 \end{aligned}$$

$$\begin{aligned} 3. & (-5v^2 - 5v)(5v^5 + v^4) \\ & = -25v^7 - 30v^6 - 5v^5 \end{aligned}$$

$$\begin{aligned} 4. & (3b^3 + 7b^2)(6b^4 + 4b^3) \\ & = 18b^7 + 54b^6 + 28b^5 \end{aligned}$$

$$\begin{aligned} 5. & (-4s^2 - 7s)(-4s^4 + s^3) \\ & = 16s^6 + 24s^5 - 7s^4 \end{aligned}$$

$$\begin{aligned} 6. & (9v^2 - 7v)(4v^2 - 3v) \\ & = 36v^4 - 55v^3 + 21v^2 \end{aligned}$$

$$\begin{aligned} 7. & (7h + 9)(-9h^2 + 4h) \\ & = -63h^3 - 53h^2 + 36h \end{aligned}$$

$$\begin{aligned} 8. & (-8h^2 + 7h)(4h^2 + 3h) \\ & = -32h^4 + 4h^3 + 21h^2 \end{aligned}$$

$$\begin{aligned} 9. & (c^3 + 4c^2)(8c^4 - 7c^3) \\ & = 8c^7 + 25c^6 - 28c^5 \end{aligned}$$

$$\begin{aligned} 10. & (m^5 - 6m^4)(-2m + 6) \\ & = -2m^6 + 18m^5 - 36m^4 \end{aligned}$$