

Multiplying Two Binomials (E)

Simplify each expression.

1. $(7p^2 + 5p)(9p^5 - 4p^4)$

2. $(-6n^2 + 2n)(-7n^5 - 4n^4)$

3. $(9v + 4)(-7v^5 + 8v^4)$

4. $(-8z^5 - 4z^4)(-8z - 5)$

5. $(-6b + 4)(-8b^2 + 9b)$

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

7. $(-6q^2 + 3q)(-q + 6)$

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

9. $(-5k + 7)(-k^3 + 3k^2)$

10. $(9b^3 + 7b^2)(4b + 3)$

Multiplying Two Binomials (E) Answers

Simplify each expression.

$$\begin{aligned} 1. & (7p^2 + 5p)(9p^5 - 4p^4) \\ & = 63p^7 + 17p^6 - 20p^5 \end{aligned}$$

$$\begin{aligned} 2. & (-6n^2 + 2n)(-7n^5 - 4n^4) \\ & = 42n^7 + 10n^6 - 8n^5 \end{aligned}$$

$$\begin{aligned} 3. & (9v + 4)(-7v^5 + 8v^4) \\ & = -63v^6 + 44v^5 + 32v^4 \end{aligned}$$

$$\begin{aligned} 4. & (-8z^5 - 4z^4)(-8z - 5) \\ & = 64z^6 + 72z^5 + 20z^4 \end{aligned}$$

$$\begin{aligned} 5. & (-6b + 4)(-8b^2 + 9b) \\ & = 48b^3 - 86b^2 + 36b \end{aligned}$$

$$\begin{aligned} 6. & (4b^2 - 7b)(7b + 2) \\ & = 28b^3 - 41b^2 - 14b \end{aligned}$$

$$\begin{aligned} 7. & (-6q^2 + 3q)(-q + 6) \\ & = 6q^3 - 39q^2 + 18q \end{aligned}$$

$$\begin{aligned} 8. & (2r^2 - 4r)(-7r + 3) \\ & = -14r^3 + 34r^2 - 12r \end{aligned}$$

$$\begin{aligned} 9. & (-5k + 7)(-k^3 + 3k^2) \\ & = 5k^4 - 22k^3 + 21k^2 \end{aligned}$$

$$\begin{aligned} 10. & (9b^3 + 7b^2)(4b + 3) \\ & = 36b^4 + 55b^3 + 21b^2 \end{aligned}$$