

Multiplying Two Binomials (A)

Simplify each expression.

1. $(-7z^2 - 7z)(-z^4 + 2z^3)$

2. $(7k + 8)(-9k^2 - 5k)$

3. $(5n^3 - 7n^2)(-2n - 1)$

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

5. $(8y^5 + 5y^4)(4y^4 + 8y^3)$

6. $(7a^4 - 3a^3)(9a^4 - 7a^3)$

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

8. $(-2b^3 - 7b^2)(-5b^5 - 2b^4)$

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

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

Multiplying Two Binomials (A) Answers

Simplify each expression.

$$\begin{aligned} 1. & (-7z^2 - 7z)(-z^4 + 2z^3) \\ & = 7z^6 - 7z^5 - 14z^4 \end{aligned}$$

$$\begin{aligned} 2. & (7k + 8)(-9k^2 - 5k) \\ & = -63k^3 - 107k^2 - 40k \end{aligned}$$

$$\begin{aligned} 3. & (5n^3 - 7n^2)(-2n - 1) \\ & = -10n^4 + 9n^3 + 7n^2 \end{aligned}$$

$$\begin{aligned} 4. & (9x + 7)(-5x^4 - x^3) \\ & = -45x^5 - 44x^4 - 7x^3 \end{aligned}$$

$$\begin{aligned} 5. & (8y^5 + 5y^4)(4y^4 + 8y^3) \\ & = 32y^9 + 84y^8 + 40y^7 \end{aligned}$$

$$\begin{aligned} 6. & (7a^4 - 3a^3)(9a^4 - 7a^3) \\ & = 63a^8 - 76a^7 + 21a^6 \end{aligned}$$

$$\begin{aligned} 7. & (-7t^4 + 9t^3)(7t^5 + 4t^4) \\ & = -49t^9 + 35t^8 + 36t^7 \end{aligned}$$

$$\begin{aligned} 8. & (-2b^3 - 7b^2)(-5b^5 - 2b^4) \\ & = 10b^8 + 39b^7 + 14b^6 \end{aligned}$$

$$\begin{aligned} 9. & (-7s^4 + 8s^3)(-2s^4 - 4s^3) \\ & = 14s^8 + 12s^7 - 32s^6 \end{aligned}$$

$$\begin{aligned} 10. & (-c^4 + 4c^3)(-5c^2 - 9c) \\ & = 5c^6 - 11c^5 - 36c^4 \end{aligned}$$