

Multiplying Two Binomials (H)

Simplify each expression.

1. $(-2k^4 + 7k^3)(6k^5 - 9k^4)$

2. $(-9m^2 - m)(5m^3 - 4m^2)$

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

4. $(-2s^2 - 5s)(9s + 5)$

5. $(-4p - 2)(-2p^4 - 2p^3)$

6. $(-3k^5 + 3k^4)(-8k^5 - 7k^4)$

7. $(8d - 4)(7d^4 + 8d^3)$

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

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

10. $(5g^4 + 5g^3)(3g^4 - g^3)$

Multiplying Two Binomials (H) Answers

Simplify each expression.

$$\begin{aligned} 1. & (-2k^4 + 7k^3)(6k^5 - 9k^4) \\ & = -12k^9 + 60k^8 - 63k^7 \end{aligned}$$

$$\begin{aligned} 2. & (-9m^2 - m)(5m^3 - 4m^2) \\ & = -45m^5 + 31m^4 + 4m^3 \end{aligned}$$

$$\begin{aligned} 3. & (2f^4 - 7f^3)(-8f^5 + 2f^4) \\ & = -16f^9 + 60f^8 - 14f^7 \end{aligned}$$

$$\begin{aligned} 4. & (-2s^2 - 5s)(9s + 5) \\ & = -18s^3 - 55s^2 - 25s \end{aligned}$$

$$\begin{aligned} 5. & (-4p - 2)(-2p^4 - 2p^3) \\ & = 8p^5 + 12p^4 + 4p^3 \end{aligned}$$

$$\begin{aligned} 6. & (-3k^5 + 3k^4)(-8k^5 - 7k^4) \\ & = 24k^{10} - 3k^9 - 21k^8 \end{aligned}$$

$$\begin{aligned} 7. & (8d - 4)(7d^4 + 8d^3) \\ & = 56d^5 + 36d^4 - 32d^3 \end{aligned}$$

$$\begin{aligned} 8. & (-2a^5 + 6a^4)(8a - 2) \\ & = -16a^6 + 52a^5 - 12a^4 \end{aligned}$$

$$\begin{aligned} 9. & (8q^3 - 9q^2)(3q^4 + 4q^3) \\ & = 24q^7 + 5q^6 - 36q^5 \end{aligned}$$

$$\begin{aligned} 10. & (5g^4 + 5g^3)(3g^4 - g^3) \\ & = 15g^8 + 10g^7 - 5g^6 \end{aligned}$$