

Multiplying Two Binomials (I)

Simplify each expression.

1. $(-5g^2 - 7g)(-3g^4 - 3g^3)$

2. $(-7g^4 - 7g^3)(2g^4 + 7g^3)$

3. $(-9p^3 + 3p^2)(6p - 2)$

4. $(-4f^2 + 9f)(-8f^5 + 7f^4)$

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

6. $(-9w^4 + w^3)(6w - 9)$

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

8. $(9z^2 + 6z)(7z - 2)$

9. $(-2f^3 - 9f^2)(-2f^2 - 7f)$

10. $(-7f + 7)(-2f^3 - 4f^2)$

Multiplying Two Binomials (I) Answers

Simplify each expression.

$$\begin{aligned} 1. & (-5g^2 - 7g)(-3g^4 - 3g^3) \\ & = 15g^6 + 36g^5 + 21g^4 \end{aligned}$$

$$\begin{aligned} 2. & (-7g^4 - 7g^3)(2g^4 + 7g^3) \\ & = -14g^8 - 63g^7 - 49g^6 \end{aligned}$$

$$\begin{aligned} 3. & (-9p^3 + 3p^2)(6p - 2) \\ & = -54p^4 + 36p^3 - 6p^2 \end{aligned}$$

$$\begin{aligned} 4. & (-4f^2 + 9f)(-8f^5 + 7f^4) \\ & = 32f^7 - 100f^6 + 63f^5 \end{aligned}$$

$$\begin{aligned} 5. & (4v^4 + 4v^3)(7v^5 + 9v^4) \\ & = 28v^9 + 64v^8 + 36v^7 \end{aligned}$$

$$\begin{aligned} 6. & (-9w^4 + w^3)(6w - 9) \\ & = -54w^5 + 87w^4 - 9w^3 \end{aligned}$$

$$\begin{aligned} 7. & (4r^5 + 9r^4)(-3r^3 + 6r^2) \\ & = -12r^8 - 3r^7 + 54r^6 \end{aligned}$$

$$\begin{aligned} 8. & (9z^2 + 6z)(7z - 2) \\ & = 63z^3 + 24z^2 - 12z \end{aligned}$$

$$\begin{aligned} 9. & (-2f^3 - 9f^2)(-2f^2 - 7f) \\ & = 4f^5 + 32f^4 + 63f^3 \end{aligned}$$

$$\begin{aligned} 10. & (-7f + 7)(-2f^3 - 4f^2) \\ & = 14f^4 + 14f^3 - 28f^2 \end{aligned}$$