

Multiplying Two Binomials (G)

Simplify each expression.

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

2. $(2b^5 + 7b^4)(5b^5 - 2b^4)$

3. $(6h^5 + 8h^4)(-6h + 1)$

4. $(9n + 2)(3n^2 - n)$

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

6. $(8y^4 - 9y^3)(-2y^2 - 4y)$

7. $(-6w^5 - 4w^4)(5w^3 - 6w^2)$

8. $(g + 7)(8g^5 + 4g^4)$

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

10. $(8r^5 - 2r^4)(-5r^5 - 9r^4)$

Multiplying Two Binomials (G) Answers

Simplify each expression.

$$\begin{aligned} 1. & (-z + 9)(-8z^2 + 6z) \\ &= 8z^3 - 78z^2 + 54z \end{aligned}$$

$$\begin{aligned} 2. & (2b^5 + 7b^4)(5b^5 - 2b^4) \\ &= 10b^{10} + 31b^9 - 14b^8 \end{aligned}$$

$$\begin{aligned} 3. & (6h^5 + 8h^4)(-6h + 1) \\ &= -36h^6 - 42h^5 + 8h^4 \end{aligned}$$

$$\begin{aligned} 4. & (9n + 2)(3n^2 - n) \\ &= 27n^3 - 3n^2 - 2n \end{aligned}$$

$$\begin{aligned} 5. & (2r^5 + r^4)(-9r^2 - 6r) \\ &= -18r^7 - 21r^6 - 6r^5 \end{aligned}$$

$$\begin{aligned} 6. & (8y^4 - 9y^3)(-2y^2 - 4y) \\ &= -16y^6 - 14y^5 + 36y^4 \end{aligned}$$

$$\begin{aligned} 7. & (-6w^5 - 4w^4)(5w^3 - 6w^2) \\ &= -30w^8 + 16w^7 + 24w^6 \end{aligned}$$

$$\begin{aligned} 8. & (g + 7)(8g^5 + 4g^4) \\ &= 8g^6 + 60g^5 + 28g^4 \end{aligned}$$

$$\begin{aligned} 9. & (2f + 2)(-9f^3 - 3f^2) \\ &= -18f^4 - 24f^3 - 6f^2 \end{aligned}$$

$$\begin{aligned} 10. & (8r^5 - 2r^4)(-5r^5 - 9r^4) \\ &= -40r^{10} - 62r^9 + 18r^8 \end{aligned}$$