

## Multiplying Two Trinomials (B)

Simplify each expression.

1.  $(6b^3 - 2b^2 - 2b)(-5b^4 - 2b^3 - 5b^2)$

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

3.  $(-4d^2 - 5d + 6)(6d^2 + 2d + 6)$

4.  $(8f^2 - 8f + 9)(-9f^5 - f^4 + 4f^3)$

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

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

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

8.  $(9n^5 + 9n^4 - 6n^3)(-3n^5 + 3n^4 - 2n^3)$

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

10.  $(-t^3 - 5t^2 - 4t)(6t^4 + 5t^3 + 9t^2)$

## Multiplying Two Trinomials (B) Answers

Simplify each expression.

$$\begin{aligned} 1. & (6b^3 - 2b^2 - 2b)(-5b^4 - 2b^3 - 5b^2) \\ & = -30b^7 - 2b^6 - 16b^5 + 14b^4 + 10b^3 \end{aligned}$$

$$\begin{aligned} 2. & (2r^4 + 2r^3 - 8r^2)(2r^5 + 3r^4 + 7r^3) \\ & = 4r^9 + 10r^8 + 4r^7 - 10r^6 - 56r^5 \end{aligned}$$

$$\begin{aligned} 3. & (-4d^2 - 5d + 6)(6d^2 + 2d + 6) \\ & = -24d^4 - 38d^3 + 2d^2 - 18d + 36 \end{aligned}$$

$$\begin{aligned} 4. & (8f^2 - 8f + 9)(-9f^5 - f^4 + 4f^3) \\ & = -72f^7 + 64f^6 - 41f^5 - 41f^4 + 36f^3 \end{aligned}$$

$$\begin{aligned} 5. & (-4f^4 - 5f^3 - 3f^2)(3f^3 + f^2 + 3f) \\ & = -12f^7 - 19f^6 - 26f^5 - 18f^4 - 9f^3 \end{aligned}$$

$$\begin{aligned} 6. & (5c^5 - 3c^4 - 8c^3)(-6c^5 + 8c^4 + 4c^3) \\ & = -30c^{10} + 58c^9 + 44c^8 - 76c^7 - 32c^6 \end{aligned}$$

$$\begin{aligned} 7. & (-5s^5 + 9s^4 - 4s^3)(3s^4 - s^3 - 9s^2) \\ & = -15s^9 + 32s^8 + 24s^7 - 77s^6 + 36s^5 \end{aligned}$$

$$\begin{aligned} 8. & (9n^5 + 9n^4 - 6n^3)(-3n^5 + 3n^4 - 2n^3) \\ & = -27n^{10} + 27n^8 - 36n^7 + 12n^6 \end{aligned}$$

$$\begin{aligned} 9. & (9h^3 - 5h^2 - 9h)(-6h^3 + 7h^2 - 6h) \\ & = -54h^6 + 93h^5 - 35h^4 - 33h^3 + 54h^2 \end{aligned}$$

$$\begin{aligned} 10. & (-t^3 - 5t^2 - 4t)(6t^4 + 5t^3 + 9t^2) \\ & = -6t^7 - 35t^6 - 58t^5 - 65t^4 - 36t^3 \end{aligned}$$