Multiplying Two Binomials (E)

Simplify each expression.

1. $(7p^2 + 5p)(9p^5 - 4p^4)$

2. $(-6n^2 + 2n)(-7n^5 - 4n^4)$

3. $(9v + 4)(-7v^5 + 8v^4)$

4. $(-8z^5 - 4z^4)(-8z - 5)$

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

6. $(4b^2 - 7b)(7b + 2)$

7. $(-6q^2 + 3q)(-q + 6)$

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

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

10. $(9b^3 + 7b^2)(4b + 3)$

Multiplying Two Binomials (E) Answers

Simplify each expression.

1. $(7p^2 + 5p)(9p^5 - 4p^4)$
   $= 63p^7 + 17p^6 - 20p^5$

2. $(-6n^2 + 2n)(-7n^5 - 4n^4)$
   $= 42n^7 + 10n^6 - 8n^5$

3. $(9v + 4)(-7v^5 + 8v^4)$
   $= -63v^6 + 44v^5 + 32v^4$

4. $(-8z^5 - 4z^4)(-8z - 5)$
   $= 64z^6 + 72z^5 + 20z^4$

5. $(-6b + 4)(-8b^2 + 9b)$
   $= 48b^3 - 86b^2 + 36b$

6. $(4b^2 - 7b)(7b + 2)$
   $= 28b^3 - 41b^2 - 14b$

7. $(-6q^2 + 3q)(-q + 6)$
   $= 6q^3 - 39q^2 + 18q$

8. $(2r^2 - 4r)(-7r + 3)$
   $= -14r^3 + 34r^2 - 12r$

9. $(-5k + 7)(-k^3 + 3k^2)$
   $= 5k^4 - 22k^3 + 21k^2$

10. $(9b^3 + 7b^2)(4b + 3)$
    $= 36b^4 + 55b^3 + 21b^2$