Multiplying Two Binomials (J)

Simplify each expression.

1. $(-6s^3 - 4s^2)(s^4 - 9s^3)$

2. $(7q^3 + 9q^2)(-q + 9)$

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

4. $(-3s^3 + 6s^2)(9s^2 + 6s)$

5. $(-5v - 9)(9v + 7)$

6. $(-3q - 6)(-9q^5 - 3q^4)$

7. $(7m^3 + 9m^2)(7m^2 - 7m)$

8. $(7n^3 + 3n^2)(-n^4 - 9n^3)$

9. $(4y^5 - 8y^4)(2y^3 + 7y^2)$

10. $(8g^4 + 6g^3)(7g^5 - 7g^4)$

Multiplying Two Binomials (J) Answers

Simplify each expression.

1. $(-6s^3 - 4s^2)(s^4 - 9s^3)$
$= -6s^7 + 50s^6 + 36s^5$

2. $(7q^3 + 9q^2)(-q + 9)$
$= -7q^4 + 54q^3 + 81q^2$

3. $(-6w^5 + 2w^4)(-4w^3 + 4w^2)$
$= 24w^8 - 32w^7 + 8w^6$

4. $(-3s^3 + 6s^2)(9s^2 + 6s)$
$= -27s^5 + 36s^4 + 36s^3$

5. $(-5v - 9)(9v + 7)$
$= -45v^2 - 116v - 63$

6. $(-3q - 6)(-9q^5 - 3q^4)$
$= 27q^6 + 63q^5 + 18q^4$

7. $(7m^3 + 9m^2)(7m^2 - 7m)$
$= 49m^5 + 14m^4 - 63m^3$

8. $(7n^3 + 3n^2)(-n^4 - 9n^3)$
$= -7n^7 - 66n^6 - 27n^5$

9. $(4y^5 - 8y^4)(2y^3 + 7y^2)$
$= 8y^8 + 12y^7 - 56y^6$

10. $(8g^4 + 6g^3)(7g^5 - 7g^4)$
$= 56g^9 - 14g^8 - 42g^7$