



Multiplying Polynomials

Name _____

Score _____

MP:22

Multiply the polynomials.

1) $3uv$, $2u - 4v$

3) $k + 5 - k^2$, $5k^2$

5) $4w - w^3 - w^2 - 4$, $w - 1$

7) $m + 3n$, $9 + n - 2m$

2) $5 - a^3 + 4a - 2a^2$, $a^2 - a + 3$

4) $g^2 - 2h^2$, $9gh - g^2 - h^2$

6) $pq + 2$, $-2pq$

8) $x - 7x^3 - x^2$, $4x^2 - 3x + x^3 - 1$



Multiplying Polynomials

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Answer key

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Multiply the polynomials.

1) $3uv$, $2u - 4v$

$$6u^2v - 12uv^2$$

3) $k + 5 - k^2$, $5k^2$

$$-5k^4 + 5k^3 + 25k^2$$

5) $4w - w^3 - w^2 - 4$, $w - 1$

$$-w^4 + 5w^2 - 8w + 4$$

7) $m + 3n$, $9 + n - 2m$

$$-2m^2 - 5mn + 3n^2 + 9m + 27n$$

2) $5 - a^3 + 4a - 2a^2$, $a^2 - a + 3$

$$-a^5 - a^4 + 3a^3 - 5a^2 + 7a + 15$$

4) $g^2 - 2h^2$, $9gh - g^2 - h^2$

$$-g^4 + g^2h^2 + 8g^3h - 18gh^3 + 2h^4$$

6) $pq + 2$, $-2pq$

$$-2p^2q^2 - 4pq$$

8) $x - 7x^3 - x^2$, $4x^2 - 3x + x^3 - 1$

$$-7x^6 - 29x^5 + 18x^4 + 14x^3 - 2x^2 - x$$