Multiplying Trinomials

Multiply the trinomials.

1) $(2t - t^3 - 4t^2)(-t^2 - 5t - 2t^3)$

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2) $(pq + 2r - 3)(r - 3pq + 1)$

_____

3) $(m^2 + 3 - 2m)(m - 2m^2 + 8)$

_____

4) $(a^2 + b^3 + c)(7c - b^3 - a^2)$

_____

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

_____

6) $(-4u - v^2 - w)(v^2 + 5w + u)$

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Multiplying Trinomials

Answer key

Multiply the trinomials.

1) $(2t - t^3 - 4t^2)(-t^2 - 5t - 2t^3)$

   $$2t^6 + 9t^5 + 5t^4 + 18t^3 - 10t^2$$

2) $(pq + 2r - 3)(r - 3pq + 1)$

   $$-3p^2q^2 - 5pqr + 10pq + 2r^2 - r - 3$$

3) $(m^2 + 3 - 2m)(m - 2m^2 + 8)$

   $$-2m^4 + 5m^3 - 13m + 24$$

4) $(a^2 + b^3 + c)(7c - b^3 - a^2)$

   $$-b^6 - 2a^2b^3 - a^4 + 6b^3c + 6a^2c + 7c^2$$

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

   $$-4n^{11} - 13n^9 - 8n^7 - 4n^5 - n^3$$

6) $(-4u - v^2 - w)(v^2 + 5w + u)$

   $$-v^4 - 6v^2w - 5uv^2 - 4u^2 - 21uw - 5w^2$$