Multiplying Trinomials

Multiply the trinomials.

1) $(x^2 + y + 2z)(3z - 1 - y)$

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2) $(g + 2g^2 - 6)(-10 + 4g + g^2)$

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3) $(s + s^3 + 5s^2)(4s^3 - 6 + 7s)$

_____

4) $(m^2 + mn + 5)(2mn - 1 + m^2)$

_____

5) $(3p + 2q - r)(4r - p - 5q)$

_____

6) $(-k - 6k^4 + 1)(3k^2 + 8 + 4k)$

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Multiplying Trinomials

Answer key

Multiply the trinomials.

1) $(x^2 + y + 2z)(3z - 1 - y)$

   $3x^2z - x^2y - x^2 - y^2 + yz + 6z^2 - y - 2z$

2) $(g + 2g^2 - 6)(-10 + 4g + g^2)$

   $2g^4 + 9g^3 - 22g^2 - 34g + 60$

3) $(s + s^3 + 5s^2)(4s^3 - 6 + 7s)$

   $4s^6 + 20s^5 + 11s^4 + 29s^3 - 23s^2 - 6s$

4) $(m^2 + mn + 5)(2mn - 1 + m^2)$

   $m^4 + 3m^3n + 2m^2n^2 + 4m^2 + 9mn - 5$

5) $(3p + 2q - r)(4r - p - 5q)$

   $-3p^2 - 17pq + 13qr + 13pr - 10q^2 - 4r^2$

6) $(-k - 6k^4 + 1)(3k^2 + 8 + 4k)$

   $-18k^6 - 24k^5 - 48k^4 - 3k^3 - k^2 - 4k + 8$