

**Dividing Polynomials**

Divide by long division method.

1)  $(3r^6 + 2r^5 + 3r^4 - r^3 + 2r^2 + 2r + 3) \div (r^3 + 2r^2 - 2r + 1)$

2)  $(10z^4 + 3z^3 + 5z^2 - 8z - 5) \div (z^3 + 5z^2 + 3z + 4)$

3)  $(7g^3 + 14g^2$

4)  $(9c^5 - c^4 + c$

5)  $(12a^2 + 3a$

6)  $(4y^4 - 8y^3 + 7y^2 + 5y - 2) \div (y^2 + 5y - 8)$

7)  $(k^3 - 4k^2 - 30k - 18) \div (k + 3)$

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