



## Factoring Polynomials

Directions:

factor each polynomial **completely!**

### 2 terms

1. $8a^3 + 1$	2. $x^4 - 100y^2$
3. $m^3 - 64$	4. $27w^5 - 75w$
5. $125c^4 + cd^3$	6. $p^6q^4 - q^7$
7. $5a^4 - 245$	8. $10x^8y^2 + 80x^2y^5$

### 3 terms

9. $x^4 + 2x^2 - 63$	10. $a^4 - 3a^2 + 2$
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**11.**  $x^3 - 12x^2 + 36x$

**12.**  $2m^4 - 10m^2 - 28$

**13.**  $5x^4 - 10x^2 - 315$

**14.**  $3u^5 - 9u^3 - 84u$

**15.**  $3a^4 + 16a^2 + 20$

**16.**  $8n^4 - 2n^2 - 1$
