

Factoring: A General Strategy

In problems 1-10, factor each polynomial completely

1. $7x^2 - 28x - 224$	2. $-2x^3 + 8x$
3. $16x^2 + 22x - 3$	4. $3x^3 + 24y^3$
5. $-7x^3 + 63x$	6. $x^3 - 7x^2 + 4x - 28$
7. $x^4 - 5x^2 + 6$	8. $x^4 - 13x^2 + 36$
9. $(3x-1)^2 - 9(3x-1) + 14$	10. $x^6 - 7x^3 + 10$