

## Factoring: Several Methods

**Factor completely.**

1.  $2x^3 - 18x$

2.  $x^5 - 64x^3$

3.  $18x^3 - 50x$

4.  $-5x^3 + 405x$

5.  $4x^3 + 20x^2 + 24x$

6.  $3x^3 + 3x^2 - 36x$

7.  $4x^3 - 32x^2 + 48x$

8.  $2x^2y + 10xy - 48y$

9.  $27x^2 + 63x + 30$

10.  $12x^3 + 10x^2 - 8x$

11.  $8x^3 + 4x^2 - 12x$

12.  $18x^3y - 30x^2y - 72xy$

13.  $x^3 + 5x^2 - 9x - 45$

14.  $x^5 - 16x$

15.  $6x^7 - 40x^5 - 126x^3$

16.  $16x^{10} - 36x^8 + 36x^6 - 81x^4$

17.  $x^2y - 3x^2 - 25y + 75$

18.  $2x^2y^2 + 12xy^2 - 18x^2 - 108x$

19.  $-2x^2y^2 + 6xy^2 + 8x^2 - 24x$

20.  $3x^3y^2 - 12x^3 + 27xy^2 - 108x$