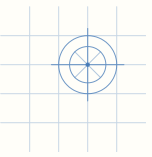


Factoring polynomials — Easy



Name: _____

Date: _____

Factor each one completely. Each has three factors.

1 $x^3 - 3x^2$
 $x(x^2 - 3x)$
 $x^2(x - 3)$

2 $x^3 + 4x^2 - x - 4$

3 $x^3 + 4x^2 + 5x + 2$

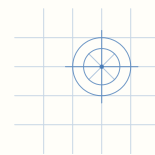
4 $x^3 - x$

5 $x^3 - x^2 - 12x$

6 $x^3 - 4x^2 - 4x + 16$



Factoring polynomials · Easy — Answer key



1. $x^3 - 3x^2 = x^2(x - 3)$

2. $x^3 + 4x^2 - x - 4 = (x - 1)(x + 1)(x + 4)$

3. $x^3 + 4x^2 + 5x + 2 = (x + 1)^2(x + 2)$

4. $x^3 - x = x(x - 1)(x + 1)$

5. $x^3 - x^2 - 12x = x(x + 3)(x - 4)$

6. $x^3 - 4x^2 - 4x + 16 = (x - 2)(x + 2)(x - 4)$