

4.4

Factoring Polynomials

For use with Exploration 4.4

P. 91 ☺

Essential Question How can you factor a polynomial?**1 EXPLORATION:** Factoring Polynomials

Work with a partner. Match each polynomial equation with the graph of its related polynomial function. Use the x -intercepts of the graph to write each polynomial in factored form. Explain your reasoning.

a. $x^2 + 5x + 4 = 0$ **C**
 $(x+4)(x+1)$

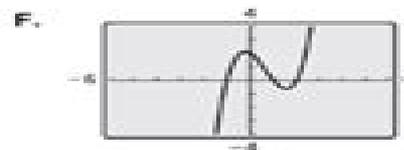
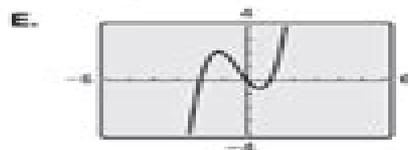
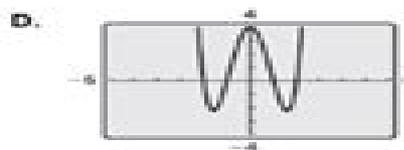
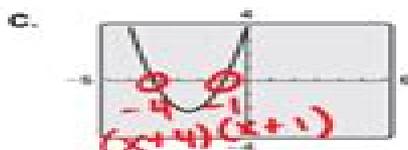
b. $x^3 - 2x^2 - x + 2 = 0$ **F**
 $(x+1)(x-1)(x-2)$

c. $x^3 + x^2 - 2x = 0$
 $x(x-2)(x+1)$

d. $x^3 - x = 0$
 $x(x+1)(x-1)$

e. $x^4 - 5x^2 + 4 = 0$
 $(x+1)(x-1)(x+2)(x-2)$

f. $x^4 - 2x^3 - x^2 + 2x = 0$
 $x(x+1)(x-1)(x-2)$



Factoring Polynomials Punchline

R Barnett



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