3-2 Reteach to Build Understanding

Multiplying, Factoring, and Graphing Polynomials

1. Match each statement or question with the most appropriate polynomial.

   a. Factor $6x^3 - 15x^2 + 12x - 30$.

Value at 0	
Value at 1	
Value at 2	

   b. Multiply: $(x - 2)(3x^2 - 2x - 5)$

Value at 2	
Value at 1	
Value at 0	
Value at 3	
Value at 5	

2. Simplify each polynomial. Write the polynomial in standard form.

   $(x - 2)(3x^2 - x + 4) - (x^3 + 2x - 5)$

   $= 3x^3 - x^2 + 4x - 6x^2 + 2x - 8 - x^3 - 2x + 5$

   $= 2x^3 - 7x^2 + 4x - 3$

3. Factor.

   a. $2x^3 - 8x^2 + 12x - 24$

   $= 2(x^3 - 4x^2 + 6x - 12)$

   $= 2[x^2(x - 4) + 6(x - 2)]$

   $= 2[x^2(x - 2)(x - 2) + 6(x - 2)]$

   $= 2(x - 2)(x^2 + 6)$

   b. $3x^3 - 12x^2 - 27x + 108$

   $= 3x^2(x - 4) - 27(x - 4)$

   $= 3(x - 4)(x^2 - 9)$

   $= 3(x - 4)(x - 3)(x + 3)$

   c. $4x^3 + 16x^2 - 9x - 36$

   $= 4x^2(x + 4) - 9(x + 4)$

   $= (x + 4)(4x^2 - 9)$

   $= (x + 4)(2x - 3)(2x + 3)$

3 8 Reteach Transforming Polynomials

R. S. Anderssen

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