Lesson 9.5 Practice: Factoring by Grouping and Factoring Completely

School Launch · Algebra I · Unit 9: Factoring · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Factor completely: $x^3 - 5x^2 + 3x - 15$. EASY

2. Factor completely: $x^3 - 2x^2 + 3x - 6$. EASY

3. Factor completely: $x^3 + 3x^2 + x + 3$. EASY

4. Factor completely: $x^3 - 4x^2 + 4x - 16$. MEDIUM

5. Factor completely: $x^3 - 7x^2 + x - 7$. MEDIUM

6. Factor completely: $2x^3 + 2x^2 + 2x + 2$. MEDIUM

7. Factor completely: $2x^3 - 14x^2 + 8x - 56$. MEDIUM

8. Factor completely: $x^3 - x^2 - 9x + 9$. HARD

9. Factor completely: $2x^3 - 18x^2 - 32x + 288$. HARD

10. Factor completely: $2x^3 + 2x^2 - 50x - 50$. HARD