Lesson 9.1 Practice: Factoring Out the Greatest Common Factor

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 out the GCF: $36 - 36x$. EASY

2. Factor out the GCF: $2x + 10$. EASY

3. Factor out the GCF: $2x + 4$. EASY

4. Factor out the GCF: $12x^{3} - 10x^{2} - 12x$. MEDIUM

5. Factor out the GCF: $3x^{3} - 3x^{2} - 6x$. MEDIUM

6. Factor out the GCF: $30x^{3} - 30x^{2} - 15x$. MEDIUM

7. Factor out the GCF: $-8x^{3} + 24x^{2} - 24x$. MEDIUM

8. Factor out the GCF: $-21x^{3} + 35x^{2} - 28x$. HARD

9. Factor out the GCF: $-54x^{3} + 27x^{2} + 54x$. HARD

10. Factor out the GCF: $21x^{3} - 15x^{2} - 9x$. HARD