Lesson 8.5 Practice: Dividing Polynomials by Monomials

School Launch · Algebra I · Unit 8: Polynomials · 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. Divide: $\frac{-16x^2-12x}{4x}$. EASY

2. Divide: $\frac{-8x^3+10x^2}{2x^2}$. EASY

3. Divide: $\frac{-20x^3-8x^2}{4x^2}$. EASY

4. Divide: $\frac{-15x^4+15x^3+10x^2}{5x^2}$. MEDIUM

5. Divide: $\frac{36x^3-24x^2-42x}{6x}$. MEDIUM

6. Divide: $\frac{-12x^3-3x^2-21x}{3x}$. MEDIUM

7. Divide: $\frac{10x^3+6x^2+10x}{2x}$. MEDIUM

8. Divide: $\frac{12x^4+2x^3+6x^2+14x}{2x}$. HARD

9. Divide: $\frac{2x^5+10x^4-10x^3+2x^2}{2x^2}$. HARD

10. Divide: $\frac{-15x^5-21x^4-9x^3+3x^2}{3x^2}$. HARD