

Module: Polynomials
Lesson 2: Dividing Monomials
Homework

Name _____
Date _____
Period _____

Divide the following monomials. Write answers in simplest form.

1. $\frac{x^9}{x^5}$

2. $\frac{x^2}{x^{13}}$

3. $\frac{2x^4}{x}$

4. $\frac{6x^2}{3x^{-5}}$

5. $\frac{x^{-3}y^4}{x^{-2}y}$

6. $\frac{-8x^6y^2}{2x^2y^2}$

7. $\frac{8xy^2}{12x^3y^5}$

8. $\frac{20x^3y^{-8}}{-5x^3y}$

9. $\frac{8x^{-4}y^{10}}{-2x^2y^{-8}}$

10. $\frac{-9x^8y^2}{-6x^2y^6}$

11. $\frac{14x^9y^3}{2xy^3}$

12. $\frac{12xy^3}{-4y^3}$

13. $\frac{(4x^2y)(x^3y^2)}{8x^{-3}y^5}$

14. $\frac{(-4x^5y^{-2})^2}{(2x^3y^{-5})^3}$