Polynomials – Day 4

Notes

Name ________________________
Date _____________ Period ______

Simplify.

1. \( \frac{-x^5 y^2}{x^3 y^2} \)
2. \( \frac{16x^2}{8x} \)
3. \( \frac{88x^5 y^4}{-22x^2 y^3} \)

4. \( \frac{-x^7 y^8}{-x^2 y} \)
5. \( \frac{3x^5 y^6}{18y^5} \)
6. \( \frac{(-3x^3)^2}{x^4 y^2} \)

Solve.

7. The area of a rectangle is \((64x^4y^{10})\). If the length of the rectangle is \((2xy^3)\), find the width.

8. The volume of a rectangular prism is \((36x^5y^9)\). Find the length of the prism if its width is \((3x^2y)\) and its height is \((4xy^3)\).