

Name: _____
Date: _____
Class: _____

Algebra
Unit 6
HW 6-1

1) If $f(x) = 2x^3 + 7$, then $f(-1) = ?$

2) Simplify: $(3x^2)^2 (2x^5)^3$

3) Simplify (but leave in exponential form): $\frac{5^7}{5^3}$

4) Simplify: $\frac{(5x^2y^3)^2}{(10xy)^2}$

5) Simplify: $\frac{x^4y}{xy^8}$

6) Simplify: $\frac{18x^4y^2}{3x^8y^5}$

7) Simplify: $\frac{(2xy^2)^2}{4(x^2y^3)^2}$

8) Simplify: $8x(2x^2 - 8x - 2) - 3x^3(2 + x + 3x^2) - 4x^2$