

HW #8 Review for P.2 Test

Name: \_\_\_\_\_

Rewrite in scientific notation

1. -4,321,000,000

2. 0.0007914

Rewrite in decimal notation

3.  $5.72 \times 10^{-4}$

4.  $8.234 \times 10^7$

Evaluate without a calculator

5.  $36^{\frac{3}{2}}$

6.  $\sqrt[3]{64}$

7.  $\left(\frac{4}{25}\right)^{-\frac{1}{2}}$

Completely simplify with no negative exponents

8.  $(3x^2y^3)^2(2x^{-3}y)$

9.  $\frac{4m^3n^0p^2}{(3mn^2p^{-2})^2}$

10.  $5d^3(2d^2f^4)^3$

Completely simplify showing all work

11.  $\sqrt{32x^5}$

12.  $3\sqrt{18} - 5\sqrt{50}$

13.  $\sqrt[3]{16m^5n^6p^2}$

14.  $5\sqrt{20} + 7\sqrt{45}$

15.  $\sqrt[4]{32p^5r^3}$

16.  $4x\sqrt{12x^3y}$

Rationalize and simplify

17.  $\frac{2}{\sqrt{5}}$

18.  $\frac{3}{2\sqrt{6}}$

19.  $\frac{5\sqrt{2}}{6\sqrt{6}}$