BECA / Dr. Huson / Geometry 01-Measurement Name: pset ID: $2\,$

1-4HW-Precision + exponents

- 1. For each of the following, round to the given precision:
 - (a) Tenths, $85.44580 \approx$
 - (b) Hundredths, $219.4951280 \approx$
 - (c) Thousands, $412,725.4 \approx$
- 2. Write down the number of significant figures of each value:
 - (a) 3.14159
 - (b) 5.40
 - (c) 96, 100
- 3. Round each value to three significant figures:
 - (a) $289.457 \approx$
 - (b) $7.142856...\approx$
 - (c) $21,060 \approx$
 - (d) $1.0095867 \approx$
 - (e) $\pi \approx$
 - (f) $e \approx$

Simplify

4.
$$(x+5)(3x-2)$$

5.
$$(x-1)(x+2)(x-3)$$

6.
$$x^3 \times x^{-2}y^2$$

7.
$$x^3 \div x^5 y$$

8.
$$\sqrt[3]{x^6y^3z^6}$$

The formula for simple interest is $P(t) = P_0(1 + rt)$.

- 9. What is the value of \$200 in principal at a rate of 5% per annum after one-half year? $(P_0=200,\,r=0.05,\,t=0.5)$
- 10. What is the value of \$220 in principal at a rate of 5.5% per annum after nine months?