Math 156 PRECALCULUS
Fall 2015

Quiz 1 – Version Two

date: _____

Name:_____

This quiz has 10 problems worth 3 points each for a total of 30 points. It is TWO SIDED.

1. Express the inequality $x \geq -7$ in interval notation. Answer: _____

2. Use the properties of real numbers to write the expression $(-2a)(b - 3a + 7c)$ without parentheses. (Simplify your answer if possible.)

Answer: _____

3. Simplify the expression $(4r^8 s^{-1/2})^{1/2}(8s^{-3/4})^{-1/3}$ and eliminate any negative exponents

Answer: _____

4. Evaluate the expression $(-32)^{\frac{1}{5}}$. Answer: _____

5. Simplify the expression $\left(\frac{q^{-1}r^{-1}s^2}{r^{-4}s^{-2}}\right)^{-1}$ and eliminate any negative exponents.

Answer: _____

6. Multiply the algebraic expression $-3(x-5y)(4x+2y)$ and simplify your answer.

Answer: _____

7. Simplify the expression $(\sqrt[3]{c^2})(6\sqrt{c})$ and eliminate any negative exponents.

Answer: _____

8. Perform the indicated operation and simplify the expression $y^{1/3}(y^{2/3}-y^{5/3})$.

Answer: _____

9. Factor the expression $6x^2-19x+10$.

Answer: _____

10. Factor the expression $125x^3-1$ completely.

Answer: _____