

Math 156 PRECALCULUS
Fall 2015

Quiz 1 – Version A

Thursday, September 10, 2015

Name: _____

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

1. Use the properties of real numbers to write the expression $-\frac{5}{3}(3x - 6y)$ without parentheses. (Simplify your answer if possible.)

Answer: _____

2. Express the interval $[-10, 21)$ in terms of inequalities.

Answer: _____

3. Evaluate the expression $(-27)^{\frac{2}{3}}$.

Answer: _____

4. Simplify the expression $(3a^{3/4})^2(5a^{1/2})$.

Answer: _____

5. Simplify the expression $\left(\frac{a^{-1}b^2}{5a^2b}\right)^{-2}$ and eliminate any negative exponents.

Answer: _____

6. Simplify the expression $\sqrt[4]{16s^2t^8}$ and eliminate any negative exponents.

Answer: _____

7. Find the sum, difference or product of $4(x^2 - 3x) - 3(x^2 - 1)$.

Answer: _____

8. Perform the indicated operation and simplify the expression $(1 + 2x)(2 - x + 3x^2)$

Answer: _____

9. Factor the expression $8x^2 + 10x + 3$ completely.

Answer: _____

10. Factor the expression $x^4(x + 3)^2 - 9x^2(x + 3)^2$.

Answer: _____