

Math 156 PRECALCULUS
Fall 2015

Quiz 1 – Version One

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. Express the interval $(-5, 18]$ in terms of inequalities. Answer: _____

2. Use the properties of real numbers to write the expression $-\frac{2}{5}(10x - 5y)$ without parentheses. (Simplify your answer if possible.)

Answer: _____

3. Simplify the expression $(6x^{3/4})^2(3x^{1/2})$. Answer: _____

4. Evaluate the expression $(-8)^{\frac{2}{3}}$. Answer: _____

5. Simplify the expression $\left(\frac{a^{-1}b^2}{7a^3b}\right)^{-2}$ and eliminate any negative exponents.

Answer: _____

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

Answer: _____

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

Answer: _____

8. Perform the indicated operation and simplify the expression $(1 - 2x)(10 - x + 3x^2)$

Answer: _____

9. Factor the expression $x^4(x + 3)^2 - 25x^2(x + 3)^2$.

Answer: _____

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

Answer: _____