

Name: _____

Date: _____

Algebra & Trigonometry Quiz-Term
Chapter R, sections {1,2,3,4,5}

5. Write interval notation for $\{x \mid -3 < x \leq 6\}$. Then graph the interval.

9. Convert to decimal notation: 4.51×10^6 .

Simplify

11. $x^{-8} \cdot x^5$

13. $(-3a^5b^{-4})(5a^{-1}b^3)$

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

Find the domain of this rational expression:

$$\frac{7x^2 + 11x - 6}{x(x^2 - x - 6)}$$

Multiply or Divide. Simplify if possible

$$\frac{x^2 - y^2}{(x - y)^2} \cdot \frac{1}{x + y}$$

Add or Subtract. Simplify if possible

$$\frac{5}{a - 3} - \frac{2}{a^2 - 9}$$