Accelerated Geo B/Algebra II Name

Unit 7: Rational and Radical Relationships Date

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Test Review Part 2

1. It takes Kevin, working at a steady rate, 80 minutes to wax his car. Allison can wax the car in 60 minutes. Find how long it would take them to do the job working together.

$$\frac{3}{80} + \frac{x \cdot 4}{60} = 1$$

$$3x + 4x = 240$$

 $7x = 240$

LCD: 240

(x=34.3 minuter together

2. It takes Ms. Green, working at a steady rate, 20 minutes to mow his front lawn. His nephew Chad can mow the lawn in 15 minutes. Find how long it would take them to do the job working together.

$$3\frac{x}{20} + 4\frac{x}{15} = 1.00$$

$$3x+4x=40$$

$$7x=40$$

LCD: 100

[x= 8.6 mins together

3. Team A can wash all the windows in the school in x hours. It takes Team B 13 hours to do the same job. If the teams work together, they can complete the job in 8.5 hours. How long does it take Team A to do the job alone?

$$\frac{13}{x}$$
, $\frac{8.5}{x}$ + $\frac{8.5}{13}$ = 1.13x $\frac{110.5 + 8.5x = 13x}{110.5 = 4.5x}$

$$110.5 + 8.5x = 13 \times 110.5 = 4.5 \times 110.5 =$$

LCD: 13 X 4. $\frac{4}{x} + \frac{5^{x}}{2} \le -\frac{11}{x}$ | CD: 2x | $\left[-\frac{1}{2}, 0\right]$ | 5. $\frac{3}{x} - \frac{1^{x}}{2} > \frac{12^{2x}}{x}$ | CD: 2x | $\left[-\frac{18}{10}\right]$

X = -6

 $8+5x \leq -22 \qquad x \neq 0$ $5x \leq -30$

$$x=2$$
 $\frac{4}{2} + \frac{5}{2} = \frac{-11}{2}$
 $x = \frac{4}{2} + \frac{5}{2} = \frac{-11}{2}$

6. $\frac{3}{x^{2}+4x} \ge \frac{1}{x+4} = \frac{(-\infty, -4)}{x+2} = \frac{(-\infty, -4)}{x+2}$

7.
$$\frac{-1}{x+2} < \frac{2}{x^2+2x}$$

-1 < 2 1 < -1 -14-2 NO

$$-3\frac{1}{-1} < \frac{2}{3} |12^{2}/_{3} |$$
 $\times = 1$ $\frac{2}{3}$