

**Pre-AP ALGEBRA II SOLVING RATIONAL EQUATIONS NOTES**

Name: \_\_\_\_\_

Solve for x showing all work. Check for any excluded values.

1. 
$$\frac{x+5}{x+2} = \frac{x+1}{x-5}$$

x = \_\_\_\_\_

2. 
$$\frac{x}{x-3} - \frac{7}{x+5} = \frac{24}{x^2+2x-15}$$

x = \_\_\_\_\_

3. 
$$\frac{3x}{x+4} + \frac{4x}{x-3} = \frac{84}{x^2+x-12}$$

x = \_\_\_\_\_

$$4. \frac{3}{x-3} + \frac{4}{x-4} = \frac{25}{x^2 - 7x + 12}$$

x = \_\_\_\_\_

$$5. \frac{x+2}{x-3} + \frac{x-2}{x-6} = 2$$

x = \_\_\_\_\_

$$6. x + \frac{x}{x-2} = \frac{2}{x-2}$$

x = \_\_\_\_\_