

## 2.4 Rational Equations

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

## Corrective Assignment

**Directions: State all excluded values for the below equations.**

1)  $\frac{4}{x-2} = 5$

2)  $\frac{5}{9+2x} = \frac{3}{x}$

3)  $\frac{x+8}{x+2} - \frac{2}{x-2} = \frac{4}{x-3}$

4)  $\frac{6}{3x-7} = 5$

**Directions: Solve each equation. Make sure you state any excluded value(s).**

5)  $\frac{4}{m} = \frac{3}{2}$

6)  $\frac{1}{7-p} = \frac{5}{p-7}$

7)  $\frac{4}{h+1} = \frac{3}{h-10}$

8)  $3 = -\frac{93}{4-5m}$

9)  $\frac{352}{6p+4} + 10 = 2$

10)  $-\frac{104}{3-7a} - 7 = -9$

11) $\frac{5}{n+2} = \frac{4}{10}$	12) $\frac{7}{x} = \frac{3}{x+8}$	13) $\frac{8}{m-4} = \frac{1}{m-4}$
14) $\frac{84}{5x-2} + 8 = 11$	15) $\frac{305}{-5-7x} - 1 = -6$	16) $-\frac{329}{8m+7} = -7$

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## CA Solutions

- 1)  $x \neq 2$       2)  $x \neq -\frac{9}{2}$  and  $x \neq 0$       3)  $x \neq -2, x \neq 2,$  and  $x \neq 3$       4)  $x \neq \frac{7}{3}$
- 5)  $m = \frac{8}{3}$  and  $m \neq 0$       6) No Solution      7)  $= 43, p \neq -1$  and  $p \neq 10$
- 8)  $m = 7$  and  $m \neq \frac{4}{5}$       9)  $p = -8$  and  $p \neq -\frac{2}{3}$       10)  $a = -7$  and  $a \neq \frac{3}{7}$
- 11)  $n = 10.5$  and  $n \neq -2$       12)  $x = -14$  and  $x \neq -8$  and  $x \neq 0$       13) No Solution
- 14)  $x = 6$  and  $x \neq \frac{2}{5}$       15)  $x = 8$  and  $x \neq -\frac{5}{7}$       16)  $m = 5$  and  $m \neq \frac{-7}{8}$