

# MATH [0471] – [406 COMPLEX FRACTIONS AND EQUATIONS]

## Simplify

1.  $\frac{\frac{3}{4}}{\frac{2}{3}}$

2.  $\frac{2+\frac{5}{6}}{1-\frac{7}{8}}$

3.  $\frac{\frac{1}{x}+\frac{2}{y}}{\frac{2}{x}+\frac{1}{y}}$

4.  $\frac{\frac{x-5}{x^2-4}}{x+2}$

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

## Solve

6.  $\frac{x}{5}+4=\frac{5}{3}$

7.  $\frac{y}{3}-\frac{y}{6}+\frac{y}{2}=1$

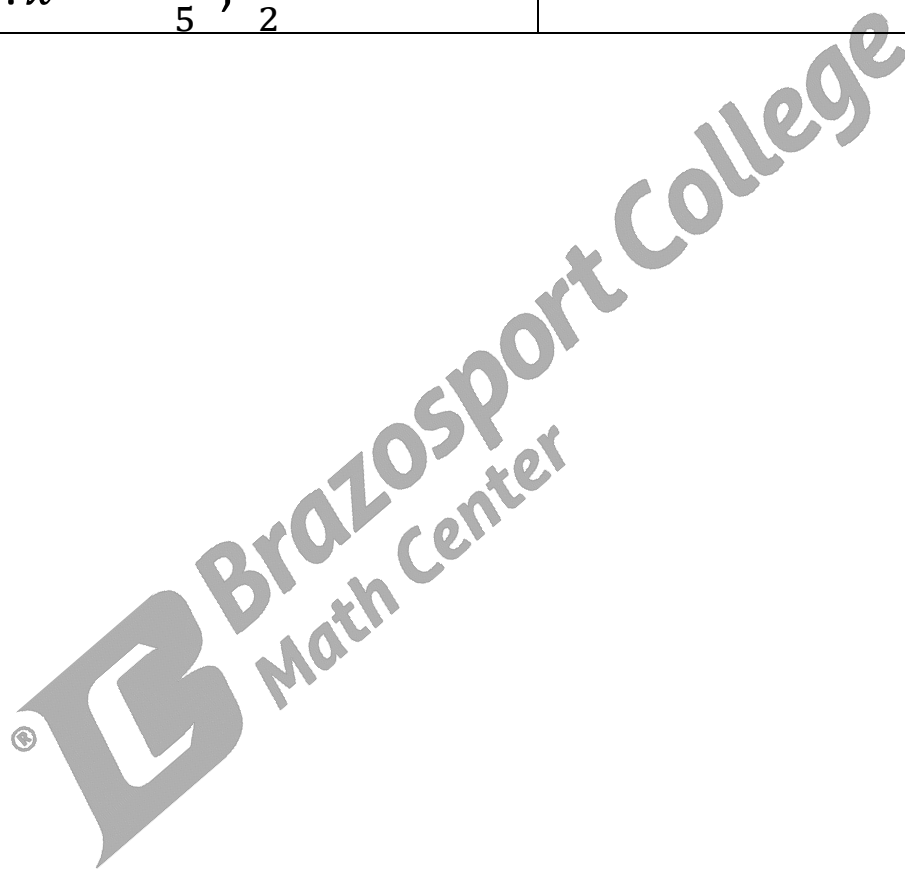
8.  $\frac{5}{x+1}=\frac{4}{x+2}$

9.  $10-\frac{3}{x^2}=-\frac{1}{x}$

10.  $\frac{2}{x-3}+\frac{x}{x^2-9}=\frac{4}{x+3}$

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1. $\frac{9}{8}$	2. $\frac{68}{3}$
3. $\frac{2y^2+5xy+2x^2}{x^2y^2}$	4. $\frac{1}{x^2+3x-10}$
5. $\frac{x+3}{x-2}$	6. $x = -\frac{35}{3}$
7. $y = \frac{6}{4}$	8. $x = -6$
9. $x = -\frac{3}{5}, \frac{1}{2}$	10. $x = 18$

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Math Center

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