

Section 9-1 to 9-2
Review Worksheet 22

Name _____

Name the undefined values for each problem. Remember, when in doubt...

1) $\frac{1}{x} + \frac{2}{x-8}$

$x \neq$ _____

2) $\frac{x}{2x+5} - \frac{4}{x+2}$

$x \neq$ _____

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

$x \neq$ _____

4) $\frac{x-1}{x^2+5x-14} - \frac{6x}{5x-10}$

$x \neq$ _____

Multiply or divide each expression.
Remember...

5) $\frac{-2w^3y}{15xz^5} \cdot \frac{25x^3}{14w^2y^2}$

Mult & Div.

- 1) factor
- 2) cancel
- 3) mult. across

Add & Subt.

- 1) factor
- 2) find common denom.s
- 3) simplify numerator
- 4) check to see if numerator factors again
- 5) write denominator for final answer

6) $\left(\frac{2n^2}{3w}\right)^3 \cdot \frac{27w^4}{10n^4}$

7) $\frac{a^5y^3}{wy^7} \div \frac{a^3w^2}{w^5y^2}$

8) $\frac{5-p}{p^3q} \div \frac{p^2-25}{p^4q}$

9) $\frac{b^2+2b+1}{3b^2} \cdot \frac{6b}{b^2-4b-5}$

10) $\frac{r^3}{a^2-25} \div \frac{2r}{5-a} \cdot \frac{ar+5r}{8}$

Add or subtract each expression.

Remember...

$$11) \quad \frac{2}{3a} + \frac{5}{4b} + \frac{7a}{12ab}$$

Mult & Div.

- 1) factor
- 2) cancel
- 3) mult. across

Add & Subt.

- 1) factor
- 2) find common denom.s
- 3) simplify numerator
- 4) check to see if numerator factors again
- 5) write denominator for final answer

$$12) \quad \frac{2}{a+2} - \frac{3}{2a}$$

$$13) \quad \frac{3}{x+2} + \frac{4x+5}{3x+6}$$

$$14) \quad \frac{x}{3-x} - \frac{2}{x^2-4x+3}$$

$$15) \quad \frac{4z}{z-4} + \frac{z+4}{z+1}$$

$$16) \quad c + \frac{2c}{c+1}$$

$$17) \quad \frac{3}{y^2+y-12} - \frac{2}{y^2+6y+8}$$