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Name _____ Date _____ Period _____

Rational Expressions

$$2) \frac{m-3n}{6m^2n} - \frac{m+3n}{6m^2n} - \frac{1}{m^2}$$

$$4) \frac{5}{10n^2+16n+6} + \frac{n-6}{10n^2+16n+6} - \frac{-1+n}{10n^2+16n+6}$$

$$6) \frac{x+2}{2x^2+13x+20} - \frac{x+3}{2x^2+13x+20} - \frac{1}{2x^2+13x+20}$$

$$8) 6 - \frac{x+5}{(7x-5)(x+4)} - \frac{42x^2+137x-125}{(7x-5)(x+4)}$$

$$10) \frac{3}{4y^2+4y} - \frac{7}{2} - \frac{3-14y^2-14y}{4y(y+1)}$$

$$12) \frac{5}{n+5} + \frac{4n}{2n+6} - \frac{15n+15+2n^2}{(n+3)(n+5)}$$

$$14) \frac{2}{3x^2+12x} + \frac{8}{2x} - \frac{50+12x}{3x(x+4)}$$

$$15) \frac{7n}{n+1} + \frac{8}{n-7} - \frac{7n^2-41n+8}{(n+1)(n-7)}$$

$$17) \frac{3}{8} - \frac{3}{3x+4} - \frac{9x-12}{8(3x+4)}$$

$$19) \frac{3}{x+6} + \frac{7}{x-2} - \frac{10x+36}{(x+6)(x-2)}$$

$$21) \frac{5n+5}{5n^2+35n-40} + \frac{7n}{3n} - \frac{52n-53+7n^2}{3(n+8)(n-1)}$$

$$23) \frac{25}{4} - \frac{4}{5} - \frac{4}{25} - \frac{625}{4}$$

$$25) \frac{a}{25} - \frac{a}{5} - \frac{a}{4} - \frac{4}{25}$$

$$16) \frac{2}{n+8} + \frac{4}{n+8} - \frac{6n+34}{(n+1)(n+8)}$$

$$18) \frac{3}{b-8} + \frac{7}{b+8} - \frac{10b-47}{(b+3)(b-8)}$$

$$20) \frac{4}{x+1} - \frac{2}{x+1} - \frac{2x+6}{(x+1)(x+2)}$$

$$22) \frac{3}{n-5} + \frac{6}{3n-8} - \frac{15n-54}{(3n-8)(n-5)}$$

$$24) \frac{8}{9} + \frac{16}{9} - \frac{18}{5}$$

$$26) \frac{5}{m} - \frac{4}{m} - \frac{5m}{4}$$


Critical thinking questions:

27) Simplify: $\frac{a}{b} + \frac{c}{d} - \frac{ad+bc}{bd}$

28) Split into a sum with unlike denominators: $\frac{2x+3}{x^2+3x+2}$

Many solutions

Name _____ Period _____



Where Do Aliens Surf?

Simplify the expression and then find your answer. Write the letter of the answer next to the problem number. Some answers appear more than once.

1) $\frac{3x^2-12x}{x^2}$	2) $\frac{4x^2-4}{2x^2(x+1)}$	3) $\frac{3x^2-2x}{x^2}$
4) $\frac{1}{x^2} + 2$	5) $\frac{2x^2-4}{x^2(x-1)}$	6) $\frac{x^2-4}{2x^2(x-1)}$
7) $\frac{1}{2} + \frac{1}{10}$	8) $\frac{1}{2x^2} + \frac{1}{3x^2}$	9) $\frac{1}{2} + \frac{1}{2x}$
10) $\frac{1}{2x^2} - \frac{1}{24x}$	11) $\frac{12}{x^2(x+1)}$	12) $\frac{3x^2}{2x^2(x-1)} - \frac{4x}{2x^2(x-1)}$

$\frac{1}{x^2(x+1)}$ $\frac{1}{x^2(x-1)}$ $\frac{2x+1}{x^2}$ $\frac{1}{x^2}$ $\frac{2x^2-1}{x^2}$

$\frac{1}{x}$ $\frac{10x}{x^2}$ $\frac{3x}{x^2}$ $\frac{1}{x}$ $\frac{2x^2-4x+1}{(x-1)(x+1)}$ $\frac{1}{x^2}$ $\frac{2x+1}{x^2(x-1)}$ $\frac{3x^2}{x^2}$

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6.1 - Simplifying Rational Expressions MASTERY

Date _____ Period _____

Simplify each expression.

1) $\frac{n+6}{n^2-2n-48}$
 $\frac{1}{n-8}$

2) $\frac{36}{18x+60}$
 $\frac{6}{3x+10}$

3) $\frac{14b^2-63b}{63b^3}$
 $\frac{2b-9}{9b^2}$

4) $\frac{r^2+4r-5}{r^2+r-20}$
 $\frac{r-1}{r-4}$

5) $\frac{x^2-15x+54}{2x-18}$
 $\frac{x-6}{2}$

6) $\frac{63n^2+9n}{27n^2+90n}$
 $\frac{7n+1}{3n+6}$

7) $\frac{9a-90}{a^2-18a+80}$
 $\frac{9}{a-8}$

8) $\frac{6v-24}{v^2+v-20}$
 $\frac{6}{v+5}$

9) $\frac{3r^2+11r+8}{8r+8}$
 $\frac{3r+8}{8}$

10) $\frac{3n+24}{5n^2+39n-8}$
 $\frac{3}{5n-1}$

13) $\frac{x^2-2x-15}{x^2-6x+5}$

14) $\frac{10x-6}{10x-6}$

15) $\frac{(v-7)(v+8)}{(v+8)(v-10)} \div \frac{1}{v-10}$

16) $\frac{n+3}{n+2} \div \frac{(n-1)(n+3)}{(n-1)^2}$

17) $\frac{x+3}{4} \cdot \frac{3(x-6)}{3(x+3)}$

18) $\frac{x-8}{(x+6)(x-8)} \cdot \frac{4x(x+10)}{x+10}$

19) $\frac{2b^2-12b}{b+5} \div \frac{b-6}{b+5}$

20) $\frac{1}{n+9} \div \frac{6-n}{3n-18}$

21) $\frac{28-7b}{b-4} \cdot \frac{1}{b+10}$

22) $\frac{2}{v^2-12v+27} \cdot \frac{v^2-12v+27}{3}$

23) $\frac{1}{5p^2} \div \frac{9p-36}{5p^2-35p^2}$

24) $\frac{8-7x-x^2}{x+8} \cdot \frac{x+5}{9x-9}$

25) $\frac{x^2-16}{9-x} \cdot \frac{x^2+x-90}{x^2+14x+40}$

26) $\frac{10x^2-20x}{40x^2-80x^2} \cdot \frac{16x^2+80x^2}{6x+30}$

Add/subtract the rational expressions. Show work (this includes what you are multiplying by to get common denominators and any factoring that is necessary).

1. $\frac{6}{x+2} + \frac{x}{x+2}$

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

3. $\frac{6}{y-4} - 7$

4. $\frac{4y}{y-5} + \frac{3}{5-y}$

5. $\frac{3}{3-x} + \frac{8}{x-3}$

6. $\frac{x}{2x-1} + \frac{7}{x+4}$

7. $\frac{2x+9}{x+2} = \frac{4x}{x-4}$

8. $\frac{2}{x^2-25} + \frac{3}{x^2+9x+20}$

9. $\frac{x}{x^2+2x-8} + \frac{6}{x^2+7x+12}$

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