

$$13) \frac{2}{n+1} - \frac{2}{3n+1}$$

$$A) \frac{6n}{3n+1}$$

$$B) \frac{4+2n}{(3n+1)(n+1)}$$

$$C) \frac{4n}{(3n+1)(n+1)}$$

$$D) \frac{4}{(3n+1)(n+1)}$$

$$14) \frac{3y}{2y^3} - \frac{3}{2x^2y}$$

$$A) \frac{9-4y^3x^2+2y^2x}{6y^2}$$

$$B) \frac{9}{4y^3x^2}$$

$$C) \frac{3y-2x^2y+x}{2y^3-3}$$

$$D) \frac{3x^2-3y}{2y^2x^2}$$

$$15) \frac{3}{2} - \frac{2p}{2(p+1)}$$

$$A) \frac{p+3}{2(p+1)}$$

$$B) \frac{3p}{2(p+1)}$$

$$C) \frac{5p}{2(p+1)}$$

$$D) \frac{p+2}{p+1}$$

Adding: Unlike Terms

$$16) \frac{2y}{2} + \frac{6x}{5x^2y}$$

$$A) \frac{1}{x}$$

$$B) \frac{2y+1+6x}{2+5x^2y}$$

$$C) \frac{2y+1+5x}{2+5x^2y}$$

$$D) \frac{5y^2x+6}{5xy}$$

$$17) \frac{n+1}{4n} + \frac{6n+3}{n+5}$$

$$A) \frac{10n+36-n^2}{(n+2)(n+4)}$$

$$B) \frac{11n+32}{(n+2)(n+4)}$$

$$C) \frac{25n^2+18n+5}{4n(n+5)}$$

$$D) \frac{30-5n}{(n+2)(n+4)}$$

$$18) \frac{6}{m+1} + \frac{2}{m-5}$$

$$A) \frac{7-4m-m^2}{2(m+1)}$$

$$B) \frac{8m-28}{(m+1)(m-5)}$$

$$C) \frac{1-m}{m+3}$$

$$D) \frac{1}{m+3}$$

Add & Subtract Rational Expressions Practice Test

Date _____ Period _____

Adding: Like Terms

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

*A) $\frac{2x-y}{9y^2}$

B) $\frac{x-y+1}{18y^2}$

C) $\frac{x^2-xy-6y^2}{81y^4}$

D) $\frac{x-y}{18y^2}$

2) $\frac{a+2b}{9a^2b} + \frac{a+2b}{9a^2b}$

A) $\frac{3a+3b+4}{12b^2-a}$

B) $\frac{2a+b+1+6b^2}{6b^2+a+2b}$

*C) $\frac{2a+4b}{9a^2b}$

D) $\frac{a+4b}{9a^2b}$

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

*A) $\frac{3x-1}{6x-6}$

B) $\frac{x^2}{12x^2-24x+12}$

C) $\frac{x}{3x-3}$

D) $\frac{x}{2x-2}$

4) $\frac{n-2}{(2n+3)(n-2)} + \frac{n+1}{(2n+3)(n-2)}$

A) $\frac{2n+1}{4n^2-2n-12}$

B) $\frac{2n}{2n^2-n-6}$

C) $\frac{2n-1}{4n^2-2n-12}$

*D) $\frac{2n-1}{2n^2-n-6}$

5) $\frac{v-3}{v^2+6v+9} + \frac{2v}{v^2+6v+9}$

A) $\frac{v-3}{(v+3)^2}$

B) $\frac{v}{v^2+2v-3}$

*C) $\frac{3v-3}{v^2+6v+9}$

D) $\frac{2v-3}{v^2+6v+9}$

6) $\frac{b-1}{8b^3+8b^2} + \frac{b+1}{8b^3+8b^2}$

A) $\frac{4b^2+4b-1}{4b^2+8b+4}$

B) $\frac{8b^2+8b-3}{8b^2+8b}$

*C) $\frac{1}{4b^2+4b}$

D) $\frac{8b^2-1}{8b^2+1}$

Subtracting: Like Terms

$$7) \frac{3x}{9y^2} - \frac{2y}{9y^2}$$

$$A) \frac{x - 3y - 27y^2}{3yx - 9y^2}$$

$$*B) \frac{3x - 2y}{9y^2}$$

$$C) \frac{2x}{27y^3}$$

$$D) \frac{4x + 1 - 2y}{9y^2}$$

$$8) \frac{m + 3n}{6m^3} - \frac{m + 3n}{6m^3}$$

$$*A) 0$$

$$B) \frac{m^2 + 6mn + 9n^2}{36m^6}$$

$$C) \frac{3m + 1 + 3n}{4m^2n}$$

$$D) 1$$

$$9) \frac{2}{8(v-1)} - \frac{v+2}{8(v-1)}$$

$$A) \frac{4v-3}{4v^2+4v}$$

$$B) \frac{2v-1}{2v^2+2v}$$

$$*C) -\frac{v}{8v-8}$$

$$D) 0$$

$$10) \frac{a+1}{(a+2)(2a-1)} - \frac{a+3}{(a+2)(2a-1)}$$

$$A) \frac{a-1}{2a^2+3a-2}$$

$$B) \frac{2a}{2a^2+3a-2}$$

$$*C) -\frac{2}{2a^2+3a-2}$$

$$D) \frac{3a}{2a^2+3a-2}$$

Subtracting: Unlike Terms

$$11) \frac{2y}{3x} - \frac{x+3y}{3}$$

$$A) \frac{2y+x-x^2-3xy}{3x}$$

$$B) -\frac{y}{3(x-1)}$$

$$C) \frac{-y+1}{3(x-1)}$$

$$*D) \frac{2y-x^2-3xy}{3x}$$

$$12) \frac{3}{3x^2y} - \frac{3x}{2x^3}$$

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

$$B) \frac{3+x-2x^4y}{3x^2y}$$

$$*C) \frac{2-3y}{2x^2y}$$

$$D) \frac{6+4x}{3x^2y(2x^2-1)}$$

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