

## Finding the LCD and mult/div review

Find the LCD, do not add or subtract. Show work (the factoring problems always need work).

1)  $\frac{4}{5x^3} - \frac{5x}{2xy}$

2)  $\frac{5x}{6xy} + \frac{4y}{3x}$

3)  $\frac{6x}{2y} - \frac{2x}{4}$

4)  $\frac{3x}{4x} + \frac{6y}{4xy^2}$

5)  $\frac{3n}{4} - \frac{3}{4m}$

6)  $\frac{4}{4xy^2} + \frac{5y}{5x^3}$

7)  $\frac{2}{18n^3 - 24n^2} - 2n$

8)  $\frac{3}{n+1} - \frac{5n}{n+4}$

9)  $\frac{b+2}{15b+18} + \frac{2b}{3b}$

10)  $\frac{m+2}{3m+4} - \frac{6m}{5m}$

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

12)  $\frac{4}{3} + \frac{3n}{2n^3 - 2n^2 - 24n}$

13)  $\frac{3b}{2b-1} + \frac{5}{b-6}$

14)  $\frac{6r}{5r^2} + \frac{r+1}{r^2 - 7r + 6}$

15)  $\frac{5}{x+6} + \frac{4}{4x+24}$

16)  $\frac{6}{2} - \frac{3}{2n^2 - 8n - 24}$

**REVIEW: Simplify each expression. Show all work.**

17)  $\frac{4x}{6x^2} \div \frac{5x}{7}$

18)  $\frac{5}{9x^2} \cdot \frac{7x^2}{9x^2}$

19)  $\frac{8}{8(v+7)} \div \frac{v-9}{(v-7)(v-9)}$

20)  $\frac{2n-20}{2} \cdot \frac{7n+56}{n^2-2n-80}$

21)  $\frac{8r-24}{r-2} \div \frac{14r-42}{7r+49}$

22)  $\frac{v^2+8v+12}{v+5} \cdot \frac{3v^2+15v}{3v^2+27v}$