

Worksheet #1 Lesson 5.3

Add or subtract. Identify any x - values for which the expression is undefined.

1)
$$\frac{n+5}{18n^2-6n} - \frac{4n}{18n^2-6n}$$

2)
$$\frac{x-3}{6x+30} + \frac{4}{6x+30}$$

3)
$$\frac{3r+3}{10r^2+2r} - \frac{r+1}{10r^2+2r}$$

4)
$$\frac{n-2}{n^2-7n+6} + \frac{n+2}{n^2-7n+6}$$

5)
$$\frac{6b-1}{27b+54} - \frac{b-3}{27b+54}$$

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

7)
$$\frac{5}{v^2-11v+30} - \frac{v-5}{v^2-11v+30}$$

8)
$$\frac{r-4}{10r^2+25r} - \frac{6}{10r^2+25r}$$

Find the least common multiple for each pair.

9) $7x^2y$ and $8xy^4$

10) $8x^2y^3$ and $4y$

11) $x^2 + 12x + 11$ and $x^2 - 2x - 3$

12) $x^2 - 3x - 10$ and $x^2 + 6x + 8$