

**Rational Functions 2b – Add & Subtract Unlike Denominators
Homework #13**

Name _____
Per _____ Date _____

State the excluded values and simplify.

1) $-\frac{4}{7x} - \frac{5}{3x}$

2) $\frac{10}{x^2 - 5x - 14} + \frac{2}{x - 7}$

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

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

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

6) $\frac{d - 4}{d^2 + 2d - 8} - \frac{d + 2}{d^2 - 16}$

7) $\frac{2 - 5x}{x - 10} + \frac{1}{3x + 2}$

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

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