Factoring the denominators first

Name _____ Date _____

1. $\frac{1}{x+7} + \frac{10}{x^2+4x-21} =$ _____

2. $\frac{4}{x+4} + \frac{2}{x^2-2x-24} =$ _____

3. $\frac{8}{x^2-x-6} - \frac{2}{x-3} =$ _____

4. $\frac{3}{x-3} + \frac{8}{x^2-x-6} =$ _____

5. $\frac{5}{x^2+7x+6} + \frac{1}{x+6} =$ _____

6. $\frac{3}{x^2-12x+35} - \frac{1}{x-7} =$ _____

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7. $\frac{6}{x^2 - 9x + 18} + \frac{6}{x - 3} =$ _____

8. $\frac{2}{x - 6} - \frac{2}{x^2 - 5x - 6} =$ _____

9. $\frac{2}{x^2 - 11x + 28} + \frac{4}{x - 4} =$ _____

10. $\frac{4}{x + 5} - \frac{6}{x^2 + 8x + 15} =$ _____

11. $\frac{1}{x + 1} - \frac{8}{x^2 - 2x - 3} =$ _____

12. $\frac{1}{x - 3} - \frac{5}{x^2 + 2x - 15} =$ _____