HW #44 More Practice Worksheet

Simplify the following completely.

1. $\dfrac{10a^3b}{-15ab^3}$ 2. $\dfrac{6x+24}{x^2+7x+12}$ 3. $\dfrac{x^2-5x+6}{x^2+2x-15}$ 4. $\dfrac{x^2+3x-28}{x^2-2x-8}$

Complete the following operation and simplify as much as possible.

5. $\dfrac{6}{x^2-9x+20}\cdot\dfrac{5x-25}{15}$ 6. $\dfrac{9x+18}{x^2-2x-8}\cdot\dfrac{3x-12}{6x}$ 7. $\dfrac{m^2-2m-8}{8m+24}\div\dfrac{2m-8}{m^2+7m+12}$

8. $\dfrac{x^2-5x-6}{5x+15}\div\dfrac{x^2-3x-4}{7x+21}$ 9. $\dfrac{6x-12}{x^2-9x+18}\cdot\dfrac{7x-21}{5x-10}$ 10. $\dfrac{7}{x-5}-\dfrac{4}{x-5}$

11. $\dfrac{3}{y+5}+\dfrac{y}{y^2+7y+10}$ 12. $\dfrac{7}{x+2}-\dfrac{4}{x-5}$ 13. $\dfrac{x+2}{x^2-9}-\dfrac{7}{4x+12}$

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