Short quiz

Simplify. State any domain restrictions.

on block day

1. $\dfrac{4x^2 + 7x - 2}{2x^2 - 8}$

2. $\dfrac{x^2 - 1}{x^2 - x - 6} \bullet \dfrac{x^2 - 3x}{x^2 + 5x - 6}$

(4x-1)/[2(x-2)];x≠±2

[x(x+1)]/[(x+2)(x+6)]; x≠1,3,-2,-6

3. $\dfrac{3y - 12}{2y + 4} \div \dfrac{6y - 24}{4y + 8}$

4. $\dfrac{x^2}{x^2 + 2x + 1} \div \dfrac{3x}{x^2 - 1}$

1; y≠-2,4

[x(x-1)]/[3(x+1)]; x≠±1,0

Add/subtract. Show work.

5. $\dfrac{12x^5}{20} \bullet \dfrac{2}{8x^3} \bullet \dfrac{5}{3x^6}$

6. $\dfrac{2}{5} - \dfrac{3}{8}$

1/(4x⁴), x ≠0

1/40