1. $\frac{4}{15}+\frac{2x}{33}=\frac{4}{15}\cdot\frac{11}{11}+\frac{2x}{33}\cdot\frac{5}{5}=\frac{44}{165}+\frac{10x}{165}=\frac{44+10x}{165}$

2. $\frac{x}{48}-\frac{7}{30}=\frac{x}{48}\cdot\frac{5}{5}-\frac{7}{30}\cdot\frac{8}{8}=\frac{5x}{240}-\frac{56}{240}=\frac{5x-56}{240}$

3. $\frac{3}{x}+\frac{4}{25}=\frac{3}{x}\cdot\frac{25}{25}+\frac{4}{25}\cdot\frac{x}{x}=\frac{75}{25x}+\frac{4x}{25x}=\frac{75+4x}{25x}$

4. $\frac{2}{45x}+\frac{6}{35}=\frac{2}{45x}\cdot\frac{7}{7}+\frac{6}{35}\cdot\frac{9x}{9x}=\frac{14}{315x}+\frac{54x}{315x}=\frac{14+54x}{315x}$

5. $\frac{11}{150x}+\frac{7}{36}=\frac{11}{150x}\cdot\frac{6}{6}+\frac{7}{36}\cdot\frac{25x}{25x}=\frac{66}{900x}+\frac{175x}{900x}=\frac{66+175x}{900x}$

6. $\frac{2}{21x}+\frac{3}{98x}=\frac{2}{21x}\cdot\frac{14}{14}+\frac{3}{98x}\cdot\frac{3}{3}=\frac{28}{294x}+\frac{9}{294x}=\frac{37}{294x}$

7. $\frac{1}{12x}+\frac{5}{9y}=\frac{1}{12x}\cdot\frac{3y}{3y}+\frac{5}{9y}\cdot\frac{4x}{4x}=\frac{3y}{36xy}+\frac{20x}{36xy}=\frac{3y+20x}{36xy}$

8. $\frac{19}{51y}-\frac{1}{6x}=\frac{19}{51y}\cdot\frac{2x}{2x}-\frac{1}{6x}\cdot\frac{17y}{17y}=\frac{38x}{102xy}-\frac{17y}{102xy}=\frac{38x-17y}{102xy}$

9. $\frac{7x}{24y}+\frac{2}{15y}=\frac{7x}{24y}\cdot\frac{5}{5}+\frac{2}{15y}\cdot\frac{8}{8}=\frac{35x}{120y}+\frac{16}{120y}=\frac{35x+16}{120y}$

10. $\frac{3}{14y}+\frac{2}{35x}=\frac{3}{14y}\cdot\frac{5x}{5x}+\frac{2}{35x}\cdot\frac{2y}{2y}=\frac{15x}{70xy}+\frac{4y}{70xy}=\frac{15x+4y}{70xy}$