3.	$\dfrac{5}{x}$	$\dfrac{15}{4x} + \dfrac{5}{4x} = \dfrac{15+5}{4x} = \dfrac{20}{4x} = \dfrac{5}{x}$
5.	$\dfrac{9-2x}{x+1}$	$\dfrac{9}{x+1} - \dfrac{2x}{x+1} = \dfrac{9-2x}{x+1}$
7.	5	$\dfrac{5x}{x+3} + \dfrac{15}{x+3} = \dfrac{5x+15}{x+3} = \dfrac{5(x+3)}{x+5} = 5$
9.	$3x(x-2)$	$3x, 3(x-2)$ $\text{LCM} = 3x(x-2)$
11.	$2x(x-5)$	$2x, 2x(x-5)$ $\text{LCM} = 2x(x-5)$
13.	$x(x-5)(x+5)$	x $x-5$ $x^2 - 25 = (x+5)(x-5)$ $\text{LCM} = x(x+5)(x-5)$
15.	D	D; $3x^2 - 9x = 3x(x-3)$ $6x^2 = 2(3)(x^2)$ $\text{LCM} = 6x^2(x-3)$
17.	$\dfrac{32-15x}{12x^2}$	$\dfrac{8}{3x^2} - \dfrac{5}{4x} = \dfrac{8}{3x^2} \cdot \dfrac{4}{4} - \dfrac{5}{4x} \cdot \dfrac{3x}{3x}$ $= \dfrac{32}{12x^2} - \dfrac{15x}{12x^2} = \dfrac{32-15x}{12x^2}$

19.	$\dfrac{3(x+12)}{(x+8)(x-3)}$	$\dfrac{12}{x^2+5x-24}+\dfrac{3}{x-3}=\dfrac{12}{(x+8)(x-3)}+\dfrac{3}{x-3}$ $=\dfrac{12}{(x+8)(x-3)}+\dfrac{3}{x-3}\cdot\dfrac{x+8}{x+8}$ $=\dfrac{12}{(x+8)(x-3)}+\dfrac{3x+24}{(x+8)(x-3)}$ $=\dfrac{3x+36}{(x+8)(x-3)}=\dfrac{3(x+12)}{(x+8)(x-3)}$
21.	$\dfrac{2x^2+3x+9}{(x+1)(x-3)}$	$\dfrac{9}{x-3}+\dfrac{2x}{x+1}=\dfrac{9}{x-3}\cdot\dfrac{x+1}{x+1}+\dfrac{2x}{x+1}\cdot\dfrac{x-3}{x-3}$ $=\dfrac{9x+9}{(x-3)(x+1)}+\dfrac{2x^2-6x}{(x-3)(x+1)}$ $=\dfrac{2x^2+3x+9}{(x-3)(x+1)}$
23.	$\dfrac{-3(x+16)}{(x-4)^2}$	$\dfrac{-15x}{x^2-8x+16}+\dfrac{12}{x-4}=\dfrac{-15x}{(x-4)(x-4)}+\dfrac{12}{x-4}$ $=\dfrac{-15x}{(x-4)(x-4)}+\dfrac{12}{x-4}\cdot\dfrac{x-4}{x-4}$ $=\dfrac{-15x}{(x-4)(x-4)}+\dfrac{12x-48}{(x-4)(x-4)}$ $=\dfrac{-3x-48}{(x-4)^2}$ $=\dfrac{-3(x+16)}{(x-4)^2}$