Solve for x:

1) $3(5x + 4) - 15 = 2x - 3$

2) $4x - 3(3x + 2) = 7 - 5x$

3) $4x + 2(3x + 2) = 2(7 + 5x) - 10$

4) $3(ax + b) = 7ax - c$

5) $\dfrac{2x}{3} + \dfrac{3}{4} = \dfrac{5x}{2} + 3$

6) $\dfrac{3 - x}{2} + \dfrac{3}{4} = 2x - 5\dfrac{2x - 5}{6}$

7) $7 - \dfrac{3(x-5)}{2} = 5x - \dfrac{6x-5}{3}$

8) $\dfrac{x+y}{x-y} = 2y - 1$

9) $\dfrac{3-x}{4} + \dfrac{2}{3} = 4 - \dfrac{3\cdot(2x-5)}{2}$

10) $\dfrac{2x}{3} - 3\cdot\dfrac{5-3x}{2} = \dfrac{2x}{5} + 5$

11) $a(2x-3) = b(x+1)$

12) $x(y+1) + y(x+1) = 5(x+y)$