X sub i

Example. Solve the following equations:

(a) $12(7x+5)-4(27x+8)=12(x+2)-9(2x-1)$

(b) $24(3x+7)-15(7x+2)=40(x+3)-20(8x-1)$

(c) $24(x+5)+132(19x+11)=88(13x+2)+33(2x-1)$

(d) $55(2x+2)-33(5x+7)=55(13x+17)-15(23x-29)$

(e) $45(x+3)-63(5x+9)=105(2x+3)-35(x-2)$

(a) $x=\dfrac{-5}{18}$

(b) $x=\dfrac{2}{87}$

(c) $x=\dfrac{-1429}{1322}$

(d) $x=\dfrac{-1491}{425}$

(e) $x=\dfrac{-817}{445}$

Example. Solve the following equations:

(a) $\dfrac{7x+5}{3} - \dfrac{27x+8}{9} = \dfrac{x+2}{3} - \dfrac{2x-1}{4}$

(b) $\dfrac{3x+7}{5} - \dfrac{7x+2}{8} = \dfrac{x+3}{3} - \dfrac{8x-1}{6}$

(c) $\dfrac{x+5}{11} + \dfrac{19x+11}{2} = \dfrac{13x+2}{3} + \dfrac{2x-1}{8}$

(d) $\dfrac{2x+2}{3} - \dfrac{5x+7}{5} = \dfrac{13x+17}{3} - \dfrac{23x-29}{11}$

(e) $\dfrac{x+3}{7} - \dfrac{5x+9}{5} = \dfrac{2x+3}{3} - \dfrac{x-2}{9}$

(a) $x = \dfrac{-5}{18}$

(b) $x = \dfrac{2}{87}$

(c) $x = \dfrac{-1429}{1322}$

(d) $x = \dfrac{-1491}{425}$

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Example. Solve the following equations:

(a) $\dfrac{7x+5}{3} - \dfrac{27x+8}{9} = \dfrac{x+2}{3} - \dfrac{2x-1}{4}$

(b) $\dfrac{3x+7}{5} - \dfrac{7x+2}{8} = \dfrac{x+3}{3} - \dfrac{8x-1}{6}$

(c) $\dfrac{x+5}{11} + \dfrac{19x+11}{2} = \dfrac{13x+2}{3} + \dfrac{2x-1}{8}$

(d) $\dfrac{2x+2}{3} - \dfrac{5x+7}{5} = \dfrac{13x+17}{3} - \dfrac{23x-29}{11}$

(e) $\dfrac{x+3}{7} - \dfrac{5x+9}{5} = \dfrac{2x+3}{3} - \dfrac{x-2}{9}$

(a) $x = \dfrac{-5}{18}$

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