

Solving Linear Equations (D)



Section A

- | | | |
|-------------------------------------|------------------------------------|---------------------------------------|
| 1) $\frac{2x+5}{3} = 11$ _____ | 5) $8x + \frac{1-4x}{8} = 7$ _____ | 9) $2 + \frac{4x}{3} - 7 = 1$ _____ |
| 2) $\frac{8-3x}{2} = 5$ _____ | 6) $\frac{5}{x} = -6$ _____ | 10) $4 - \frac{3x}{2} = 3x + 5$ _____ |
| 3) $\frac{5-9x}{6} = -2$ _____ | 7) $\frac{11}{4x} + 9 = 3$ _____ | 11) $6 - \frac{2}{x} = 10$ _____ |
| 4) $\frac{7x+6}{3} - 9 = -12$ _____ | 8) $5 - \frac{3x}{4} = 8x$ _____ | 12) $4 - \frac{2x}{9} + x = -1$ _____ |

Section B

- | | |
|-----------------------------------|--|
| 1) $4(2x - 3) = 8(2x + 5)$ _____ | 7) $7(4 - 3x) = 2(8x - 9) + 6$ _____ |
| 2) $3(4x - 5) = 5(2x - 5)$ _____ | 8) $-6(3 - 4x) + 2x = 8(x + 11)$ _____ |
| 3) $8(6x + 2) = 5(x - 2)$ _____ | 9) $3(2x - 6) = 3 - 4(3 - x)$ _____ |
| 4) $2(3x - 4) = 7(11 - 2x)$ _____ | 10) $9(2x - 1) - 3x = 3(12 + x)$ _____ |
| 5) $7(5 - x) = -4(x - 11)$ _____ | 11) $4x - (2x - 8) = 5(1 + 2x)$ _____ |
| 6) $-4(x - 8) = -6(4 + 3x)$ _____ | 12) $10 - 6(8x - 2) = 9x - (3 + 4x)$ _____ |

Section C

- | | |
|---|--|
| 1) $\frac{5x-2}{3} = \frac{4x+1}{2}$ _____ | 8) $\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$ _____ |
| 2) $\frac{7x-8}{5} = \frac{2x+5}{4}$ _____ | 9) $\frac{5}{3x+1} = 12$ _____ |
| 3) $\frac{-8x-1}{2} = \frac{5-3x}{6}$ _____ | 10) $\frac{x+2}{x+3} = 4$ _____ |
| 4) $\frac{5(x+11)}{3} = \frac{3(1+x)}{2}$ _____ | 11) $\frac{2x-9}{3x-2} = -3$ _____ |
| 5) $\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$ _____ | 12) $\frac{2}{3x+10} = \frac{1}{x-1}$ _____ |
| 6) $\frac{2(3x-5)}{3} = \frac{-4(x-2)}{7}$ _____ | 13) $\frac{2}{7x+3} = \frac{9}{2x-5}$ _____ |
| 7) $\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$ _____ | 14) $\frac{8}{6x+12} = -\frac{11}{7x-10}$ _____ |

Hint: Leave your answers as simplified fractions or as decimals.

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Marco Cascella



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web the dynamic mechanical analysis dma or dynamic mechanical thermal analysis dmta allows a comprehensive determination of mechanical properties of polymeric materials at different temperatures and frequencies