

Solving Linear Equations (B)

ANSWERS



Solve the equations to find x .

Section A

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|---------------------|---------------------|---------------------|----------------------------|
| 1) $7x + 9 = 23$ 2 | 4) $9x + 5 = 41$ 4 | 7) $10x + 2 = 72$ 7 | 10) $4x + 7 = 9$ 0.5 |
| 2) $5x + 7 = 42$ 7 | 5) $4x + 2 = 34$ 8 | 8) $7x + 3 = 52$ 7 | 11) $8x + 11 = 15$ 0.5 |
| 3) $4x + 3 = 51$ 12 | 6) $11x + 3 = 36$ 3 | 9) $6x + 5 = 17$ 2 | 12) $4x + 17 = 18$
0.25 |

Section B

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|--------------------|----------------------|--------------------|------------------------|
| 1) $1 + 6x = 19$ 3 | 4) $11 + 5x = 71$ 12 | 7) $23 = x + 8$ 15 | 10) $13 = 11 + 4x$ 0.5 |
| 2) $9 + 7x = 30$ 3 | 5) $5 + 3x = 32$ 9 | 8) $28 = 3x + 19$ | 11) $7 = 8x + 3$ 0.5 |
| 3) $3 + 2x = 17$ 7 | 6) $4 + 5x = 44$ 8 | 9) $53 = 8x + 5$ 6 | 12) $12 = 7 + 15x$ 1/3 |

Section C

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|---------------------|---------------------|---------------------|-----------------------|
| 1) $4x - 1 = 31$ 8 | 4) $8x - 2 = 46$ 6 | 7) $9x - 4 = 32$ 4 | 10) $2x - 1 = 2$ 0.5 |
| 2) $3x - 4 = 29$ 11 | 5) $2x - 7 = 21$ 14 | 8) $5x - 1 = 64$ 13 | 11) $4x - 8 = 10$ 0.5 |
| 3) $6x - 5 = 31$ 6 | 6) $7x - 3 = 18$ 3 | 9) $12x - 9 = 39$ 4 | 12) $15x - 2 = 3$ 1/3 |

Section D

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|-------------------|----------------------|-----------------------|-----------------------|
| 1) $x - 3 = -2$ 1 | 4) $x + 3 = 2$ -1 | 7) $2x - 3 = -9$ -3 | 10) $2x + 5 = 1$ -2 |
| 2) $x - 5 = -1$ 4 | 5) $x + 9 = 4$ -5 | 8) $2x - 10 = -2$ 4 | 11) $2x + 14 = 4$ -5 |
| 3) $x - 6 = -4$ 2 | 6) $x + 10 = -5$ -15 | 9) $2x - 18 = -20$ -1 | 12) $2x + 11 = -5$ -8 |

Section E

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|------------------|---------------------|---------------------|-----------------------|
| 1) $5 - x = 2$ 3 | 4) $8 - x = 14$ -6 | 7) $3 - 2x = 5$ -1 | 10) $2 - 3x = 14$ -4 |
| 2) $9 - x = 5$ 4 | 5) $2 - x = 15$ -13 | 8) $5 - 2x = 15$ -5 | 11) $6 - 3x = 27$ -7 |
| 3) $6 - x = 3$ 3 | 6) $7 - x = 21$ -14 | 9) $8 - 2x = 12$ -2 | 12) $16 - 5x = 61$ -9 |

Section F

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|--------------------|-----------------------|-----------------------|---------------------------|
| 1) $3x - 1 = 14$ 5 | 5) $1 - x = 6$ -5 | 9) $34 = -6 + 5x$ 8 | 13) $3 - 2x = 5$ -1 |
| 2) $x - 4 = -3$ 1 | 6) $8 + 5x = 63$ 11 | 10) $6 + 11x = -5$ -1 | 14) $8x + 42 = -54$ -12 |
| 3) $3 + 2x = 17$ 7 | 7) $16 - 2x = 40$ -12 | 11) $-29 = 3 + 4x$ -8 | 15) $6x - 16 = -70$ -9 |
| 4) $7x - 6 = 50$ 8 | 8) $34 = 6 - 4x$ -7 | 12) $6x + 13 = 25$ 2 | 16) $-9 - 4x = -53$
11 |