

Solving Linear Equations (B) **ANSWERS**



Solve the equations to find x .

Section A

1) $7x + 9 = 23$ **2**

5) $4x + 2 = 34$ **8**

9) $6x + 5 = 17$ **2**

2) $5x + 7 = 42$ **7**

6) $11x + 3 = 36$ **3**

10) $4x + 7 = 9$ **0.5**

3) $4x + 3 = 51$ **12**

7) $10x + 2 = 72$ **7**

11) $8x + 11 = 15$ **0.5**

4) $9x + 5 = 41$ **4**

8) $7x + 3 = 52$ **7**

12) $4x + 17 = 18$ **0.25**

Section B

1) $1 + 6x = 19$ **3**

5) $5 + 3x = 32$ **9**

9) $53 = 8x + 5$ **6**

2) $9 + 7x = 30$ **3**

6) $4 + 5x = 44$ **8**

10) $13 = 11 + 4x$ **0.5**

3) $3 + 2x = 17$ **7**

7) $23 = x + 8$ **15**

11) $7 = 8x + 3$ **0.5**

4) $11 + 5x = 71$ **12**

8) $28 = 3x + 1$ **9**

12) $12 = 7 + 15x$ **$\frac{1}{3}$**

Section C

1) $4x - 1 = 31$ **8**

5) $2x - 7 = 21$ **14**

9) $12x - 9 = 39$ **4**

2) $3x - 4 = 29$ **11**

6) $7x - 3 = 18$ **3**

10) $2x - 1 = 2$ **0.5**

3) $6x - 5 = 31$ **6**

7) $9x - 4 = 32$ **4**

11) $4x - 8 = 10$ **0.5**

4) $8x - 2 = 46$ **6**

8) $5x - 1 = 64$ **13**

12) $15x - 2 = 3$ **$\frac{1}{3}$**

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Section D

1) $x - 3 = -2$ **1**

5) $x + 9 = 4$ **-5**

9) $2x - 18 = -20$ **-1**

2) $x - 5 = -1$ **4**

6) $x + 10 = -5$ **-15**

10) $2x + 5 = 1$ **-2**

3) $x - 6 = -4$ **2**

7) $2x - 3 = -9$ **-3**

11) $2x + 14 = 4$ **-5**

4) $x + 3 = 2$ **-1**

8) $2x - 10 = -2$ **4**

12) $2x + 11 = -5$ **-8**

Section E

1) $5 - x = 2$ **3**

5) $2 - x = 15$ **-13**

9) $8 - 2x = 12$ **-2**

2) $9 - x = 5$ **4**

6) $7 - x = 21$ **-14**

10) $2 - 3x = 14$ **-4**

3) $6 - x = 3$ **3**

7) $3 - 2x = 5$ **-1**

11) $6 - 3x = 27$ **-7**

4) $8 - x = 14$ **-6**

8) $5 - 2x = 15$ **-5**

12) $16 - 5x = 61$ **-9**

Section F

1) $3x - 1 = 14$ **5**

7) $16 - 2x = 40$ **-12**

13) $3 - 2x = 5$ **-1**

2) $x - 4 = -3$ **1**

8) $34 - 6 = 4x$ **-7**

14) $8x + 42 = -54$ **-12**

3) $3 + 2x = 17$ **7**

9) $34 = -6 + 5x$ **8**

15) $6x - 16 = -70$ **-9**

4) $7x - 6 = 50$ **8**

10) $6 + 11x = -5$ **-1**

16) $-9 - 4x = -53$ **11**

5) $1 - x = 6$ **-5**

11) $-29 = 3 + 4x$ **-8**

6) $8 + 5x = 63$ **11**

12) $6x + 13 = 25$ **2**