



Solve the following equations. Some questions will have negative, fraction or decimal answers.

**Section A**

1)  $4x + 10 = 30$

2)  $4x - 8 = 20$

3)  $5 + 2x = 65$

4)  $9 + 4x = -15$

5)  $14 + 6x = 2$

6)  $2x - 3 = -2$

7)  $5 + 10x = -15$

8)  $10 = 7 - x$

9)  $-3 = 16 - x$

10)  $-4 = 12 - 2x$

11)  $25 = 46 - 3x$

12)  $8 = 9 - 5x$

**Section B**

1)  $\frac{x}{2} + 11 = 19$

2)  $\frac{x}{7} - 6 = 1$

3)  $12 + \frac{x}{5} = 20$

4)  $3 = \frac{x}{4} - 3$

5)  $7 = \frac{x}{2} - 4$

6)  $-2 = \frac{x}{8} - 5$

7)  $-1 = 6 + \frac{x}{2}$

8)  $14 - \frac{x}{3} = 10$

9)  $5 - \frac{x}{9} = -1$

10)  $\frac{x+5}{3} = 12$

11)  $\frac{x-4}{11} = 9$

12)  $\frac{x+3}{8} = -2$

**Section C**

1)  $3(x + 2) = 15$

2)  $2(x + 5) = 24$

3)  $6(x - 9) = 12$

4)  $2(3x + 5) = -44$

5)  $5(4x - 3) = 11$

6)  $-3(2x + 1) = 21$

7)  $-9(x - 4) = 54$

8)  $7(x - 4) - 3 = 46$

9)  $2(3x - 1) + 3 = 21$

10)  $2(x + 1) + 3x = 37$

11)  $12 + 4(2x + 4) = 68$

12)  $3x - 2(6x - 3) = 42$

**Section D**

1)  $x + 8 = 3x$

2)  $6 + x = 2x$

3)  $10 + x = 6x$

4)  $3x - 24 = 5x$

5)  $4x + 7 = 6x$

6)  $9x + 13 = 7x$

7)  $12x - 5 = 7x$

8)  $5 - 2x = 8x$

9)  $2 - 4x = 6x$

10)  $4(x + 3) = 7x$

11)  $5(2x - 1) = 16x$

12)  $3(6x + 4) = 2x$

**Section E**

1)  $9x + 2 = 4x + 12$

2)  $5x + 4 = 31 + 2x$

3)  $12 + 3x = 8x + 3$

4)  $20 + 2x = 6 + 9x$

5)  $7 + x = 13 + 4x$

6)  $5x - 3 = 2x + 6$

7)  $5x - 6 = 18 - 3x$

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

9)  $4x - 21 = 6x - 3$

10)  $x - 3 = 1 + 7x$

11)  $9x - 5 = 7 - 4x$

12)  $-8x + 4 = -26x + 1$

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**Ian Pickup**



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web the formulae and tables given in this standard apply to the calculation of load capacity of cylindrical external gears spur helical and double helical with peripheral speeds less