Linear Equation and Solution of an Equation

1. **State whether the following statements are true or false:-**

   A. $x = 5$ is the root of $2 \times - 4 = 6$

   B. $x = 3$ is the root of $5x - 6 = 8$

   C. $x = 8$ is the root of $\frac{5x}{3} = 8$

   D. $y = 9$ is the root of $\frac{1}{9}x + 4 = 5$

2. **Check whether the value given in the brackets is a solution to the given equations or not:**

   A. $x + 5 = 19$ $(x = 1)$

   B. $6x + 5 = 23$ $(x = 3)$

   C. $7x + 5 = 19$ $(x = 2)$

   D. $4x - 3 = 13$ $(y = 4)$

   E. $4x - 3 = 13$ $(x = -4) = 5x - 8 = 17$ $(x = -5)$

3. **Make two equations whose solutions are as given below:-**

   A. $x = -3$

   B. $x = 4$

   C. $x = -1$

   D. $x = \frac{3}{2}$

   E. $x = \frac{-5}{9}$

4. Solve the following equations and check your result:-

A. $x - 5 = 8$

B. $x + 10 = 19$

C. $x - \frac{4}{7} = \frac{6}{7}$

D. $x + \frac{3}{11} = \frac{5}{22}$

E. $\frac{x}{40} = 35$

F. $2 + 11x = -20$

G. $\frac{x}{7} - 4 = 5$