

SHRI DHARMASTHALA MANJUNATHESHWARA SCHOOL,
GRADE 9 WORKSHEET 4
LINEAR EQUATIONS IN TWO VARIABLES

1. Write the following statements as a linear equations in two variables.
 - i) A lending library has a fixed charge for the first three days and an additional charge for each day thereafter, Roshni paid ₹35 for a book kept for seven days.
 - ii) The cost of a ball pen is ₹5 less than half of the cost of a fountain pen.
 - iii) The cost of a hen is 50 times the cost of its egg.
 - iv) From the bus stand in Delhi, if we buy 2 tickets to Agra and 3 tickets to Mathura, the total cost is ₹440.
 - v) The parking charges of a car in a parking lot is ₹50 for the first two hours and ₹20 per hour for subsequent hours.
2. Find any four solutions for the following equations.
 - i) $4x + 3y = 12$
 - ii) $2x + 5y = 9$
 - iii) $2x + y = 7$
 - iv) $x = 2y$
3. Check whether $x = 3$ and $y = 1$ is a solution of $8x + 5y = 29$.
4. Find a solution for the linear equation $4x + 0y + 10 = 0$.
5. If $x = k^2$ and $y = k$ is a solution of the equation $x - 5y + 6 = 0$, then find the value of k .
6. If $(5, k)$ is solution of the linear equation $2x + y - 6 = 0$, then find the value of k .
7. If $\pi x + 3y = 25$ and $y = 1$, then find the value of x . $\left(\text{take } \pi = \frac{22}{7}\right)$
8. Find the value of 'a' in each of the following, if $x = 1$ and $y = 1$
 - i) $x - y = a$
 - ii) $3x + ay = 6$