

Exercise 1.2

1. Three chairs and two tables cost ₹ 1850. Write a linear equation in two variables to represent this statement.
2. The age of a father is 3 years more than three times the age of the son. Write a linear equation in two variables to represent this statement.
3. Ten years ago a father was twelve times as old as his son. Write a linear equation in two variables to represent this statement.
4. 60 copies of Mathematics book and 40 copies of English book cost ₹ 2220. Write a linear equation in two variables to represent this statement.
5. Out of two numbers, one number is greater than thrice the other number by 2. Write a linear equation in two variables to represent this statement.
6. A two digit number is 4 more than 6 times the sum of its digits. Write a linear equation in two variables to represent this statement.
7. Express the following linear equations in the form $ax + by + c = 0$ and indicate the values of a , b and c in each case.

(i) $x - y = 5$

(ii) $y = 4$

(iii) $x - \frac{y}{3} = 7$

(iv) $3x = -4y$

(v) $2x + 5 = 0$

(vi) $3x - 2y = 6.2\bar{5}$

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Answers

1. $3x + 2y = 1850$
2. $x - 3y = 3$
3. $x - 12y = -110$
4. $60x + 40y = 2220$
5. $x - 3y = 2$
6. $-5x + 4y = 4$
7. (i) $x - y - 5 = 0$; $a = 1$, $b = -1$, and $c = -5$
(ii) $0 \cdot x + 1 \cdot y - 4 = 0$; $a = 0$, $b = 1$ and $c = -4$

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