

Mathematics

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(Chapter - 3) (Pair of Linear Equations in two variables) (Exercise 3.1)

(Class X)

Question 1:

Form the pair of linear equations in the following problems, and find their solutions graphically.

(i) 10 students of Class X took part in a Mathematics quiz. If the number of girls is 4 more than the number of boys, find the number of boys and girls who took part in the quiz.

(ii) 5 pencils and 7 pens together cost ₹ 50, whereas 7 pencils and 5 pens together cost ₹ 46. Find the cost of one pencil and that of one pen.

Answer 1:

(i) Let the number of girls = x and let the number of boys = y

Total number of students = 10

Therefore, $x + y = 10$... (1)

According to question, number of girls is 4 more than the number of boys, so, $x = y + 4$... (2)

To represent graphically, three solutions of each equation is needed.

From the equation (1), we get

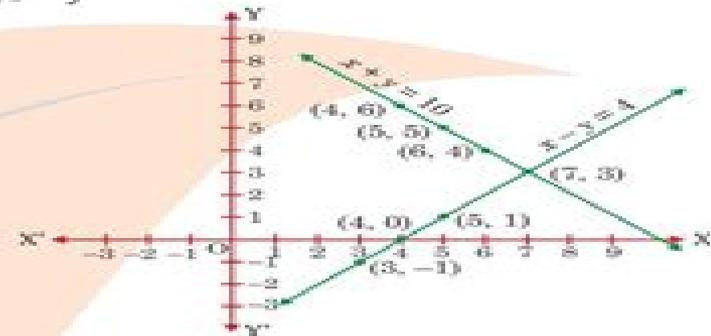
$$x = 10 - y$$

x	5	4	6
y	5	6	4

From the equation (2), we get

$$x = y + 4$$

x	5	4	3
y	1	0	-1



(ii) Let the cost of one pencil = ₹ x and let the cost of one pen = ₹ y

According to first condition,

$$5x + 7y = 50 \quad \dots (1)$$

According to second condition,

$$7x + 5y = 46 \quad \dots (2)$$

To represent graphically three solutions of each equation is given below,

From the equation (1), we get

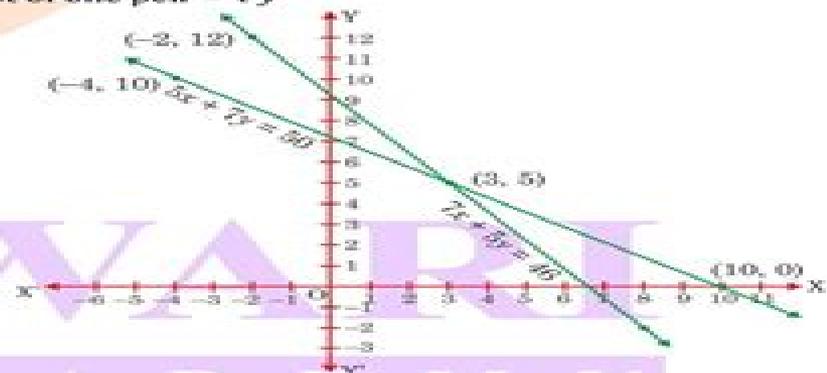
$$x = \frac{50 - 7y}{5}$$

x	3	10	-4
y	5	0	10

From the equation (2), we get

$$x = \frac{46 - 5y}{7}$$

x	8	3	-2
y	-2	5	12



Question 2:

On comparing the ratios $\frac{a_1}{a_2}$, $\frac{b_1}{b_2}$ and $\frac{c_1}{c_2}$, find out whether the lines representing the following pairs of linear equations intersect at a point, are parallel or coincident:

(i) $5x - 4y + 8 = 0$

$$7x + 6y - 9 = 0$$

(ii) $9x + 3y + 12 = 0$

$$18x + 6y + 24 = 0$$

(iii) $6x - 3y + 10 = 0$

$$2x - y + 9 = 0$$

Math Solutions Guide

Hussin A.Rothana



Math Solutions Guide:

Student's Solutions Guide for Discrete Mathematics and Its Applications Jerrold W. Grossman, Professor, Kenneth H. Rosen, 2011-07-26 Answers to ODD numbered problems are in the back of the book WORKED OUT SOLUTIONS for these ODD numbered problems are in the PRINTED Student's Solutions Guide 0 07 7353501 Complete SOLUTIONS for the EVEN NUMBERED PROBLEMS are available for the Instructor ONLY in the Instructor's Resource Guide link under the Instructor Resources [Turbocharge Your GMAT Math Solutions Guide](#) Joern Meissner, Tracy C. Yun, 2006-08 GMAT Math Solutions Guide is one of the four books in Manhattan Review Turbocharge Your GMAT series This book should be purchased in conjunction with GMAT Math Study Guide and includes a promotional offer of unlimited access to Manhattan Review online recording library *High School Math Solution* Sandy Bartle Finocchi, Amy Jones Lewis, Josh Fisher, Janet Sinopoli, Victoria Fisher, Sarah Galasso, 2021 **Student Solutions Manual and Study Guide, Discrete Mathematics with Applications** Susanna S. Epp, 2011-04 A solutions manual designed to accompany the fourth edition of the text Discrete mathematics with applications by Susanna S Epp It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself Additional review material is also provided [Larson Finite Math Solutions Guide](#) Larson, 1991-01-01 **Math Problems and Solutions Guide** David Scheinker, 2009 [Enriching Your Math Curriculum](#) Lainie Schuster, 2010 Presents practices and routines designed to support and nourish teachers as they prepare and present a meaningful year of mathematics instruction for fifth grade mathematicians Offers activities lessons and narration that can be easily adapted or adjusted to fit the particular needs of the students or the requirements of a prescribed curriculum

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Mathematical Strategies, Book I : Solutions : a Grade Nine Mathematics Solutions Guide for the Teacher William Alexander Hamilton,2002

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