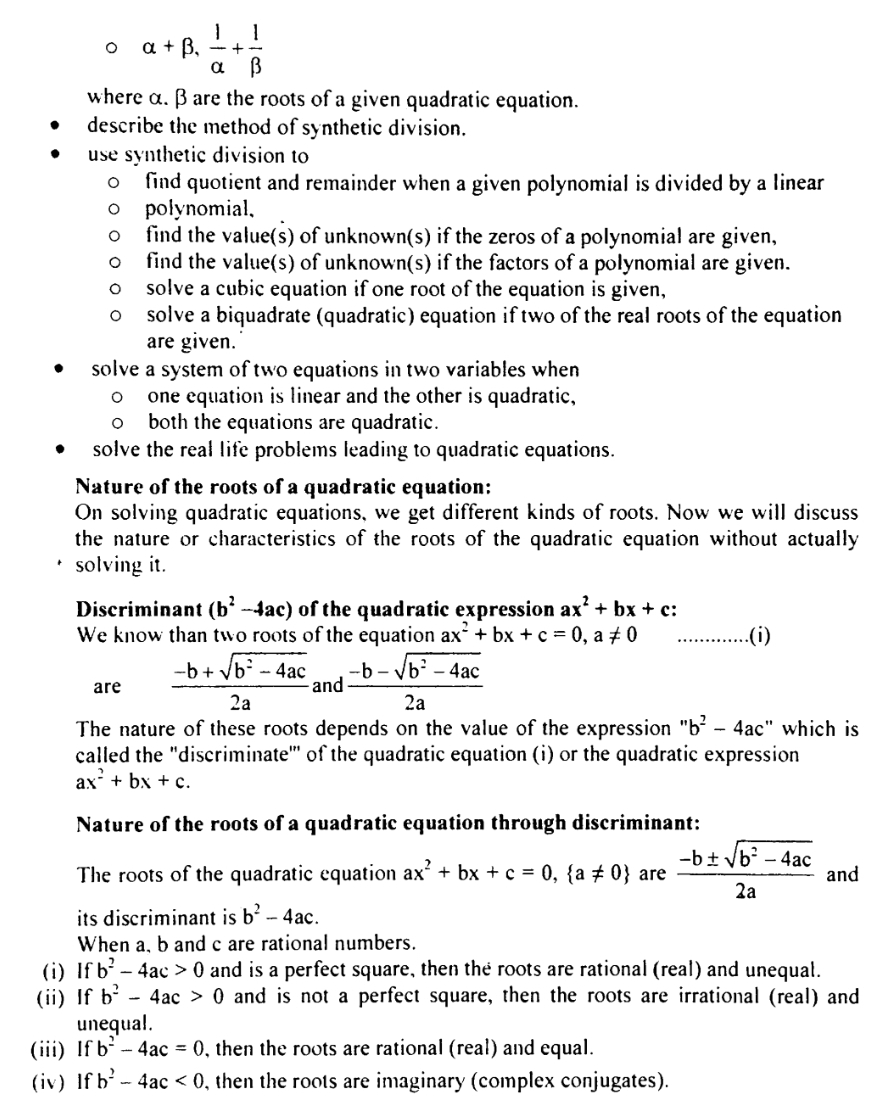
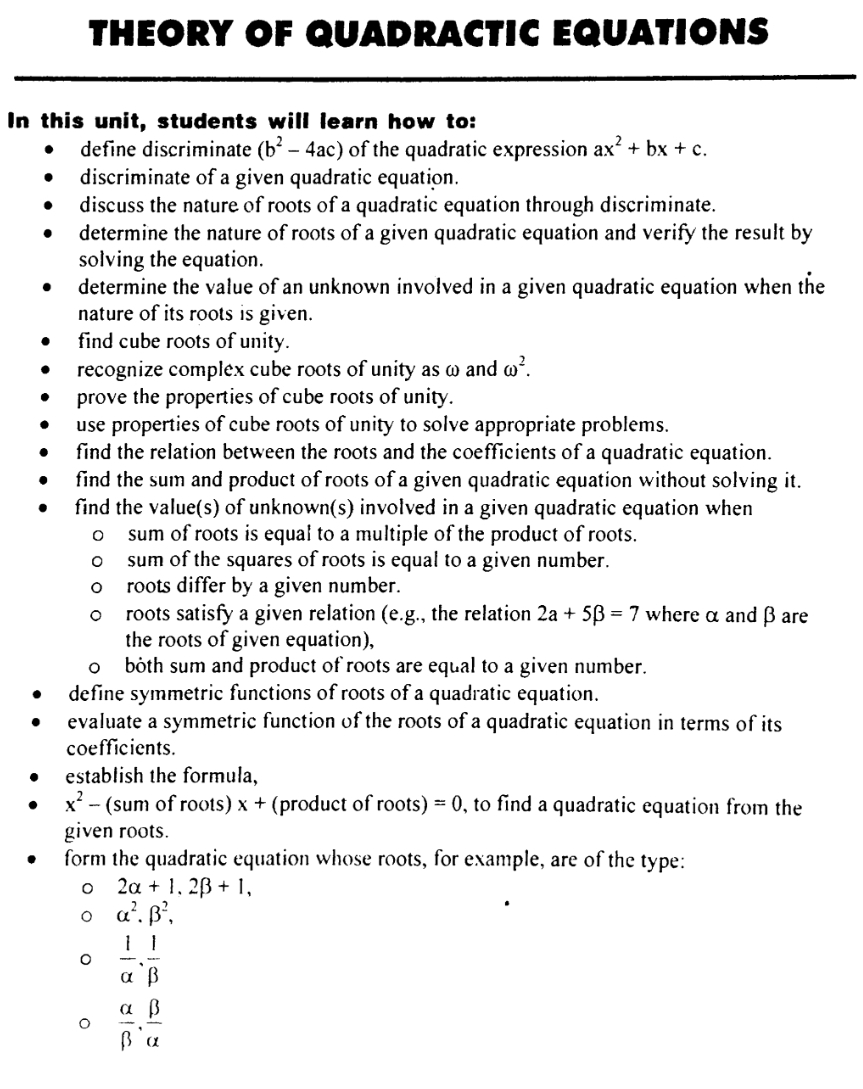
**Pakistan School , Kingdom of Bahrain**

**E- Support and Learning Material**

**Subject: Math’s (science) Grade : 10**

****

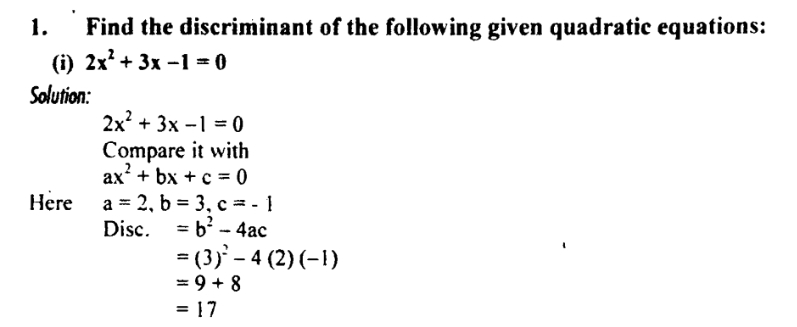
**Pakistan School , Kingdom of Bahrain**

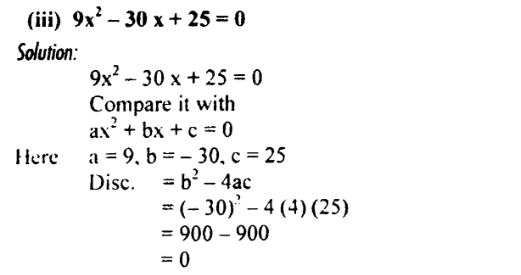
**E- Support and Learning Material**

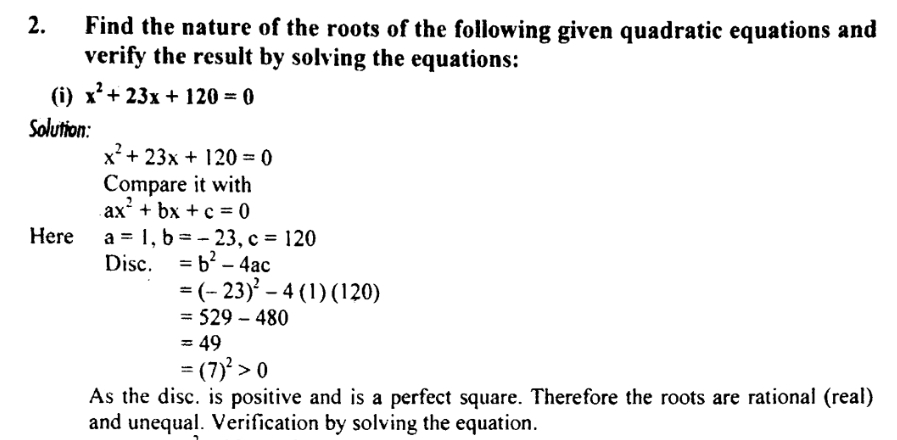
**Subject: Math’s (science) Grade : 10**

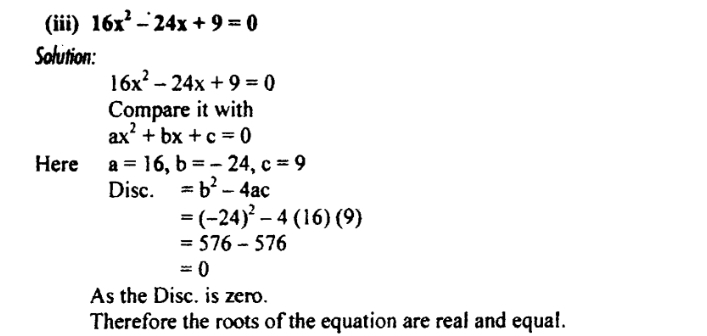
**Unit 2: Theory of Quadratic Equations**

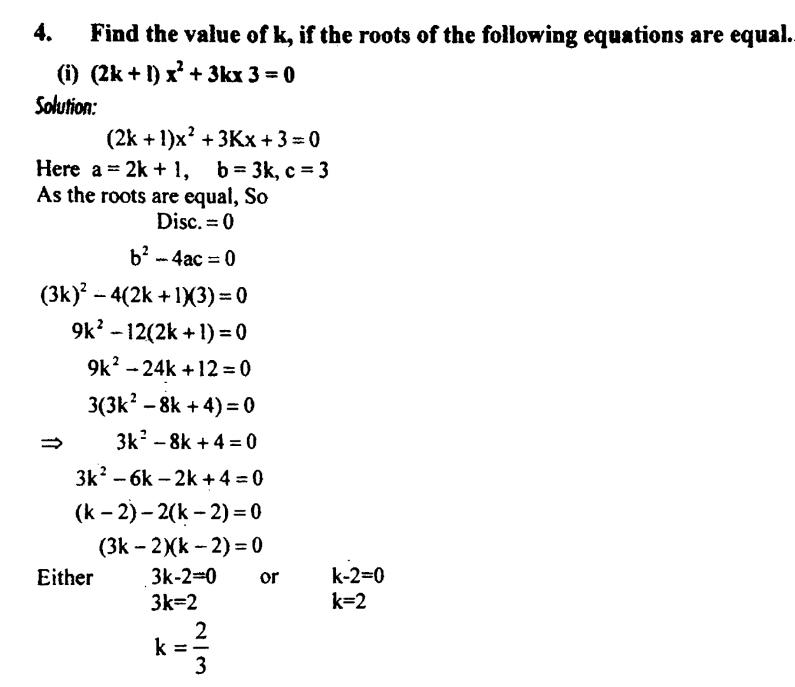
***Exercise 2.1***

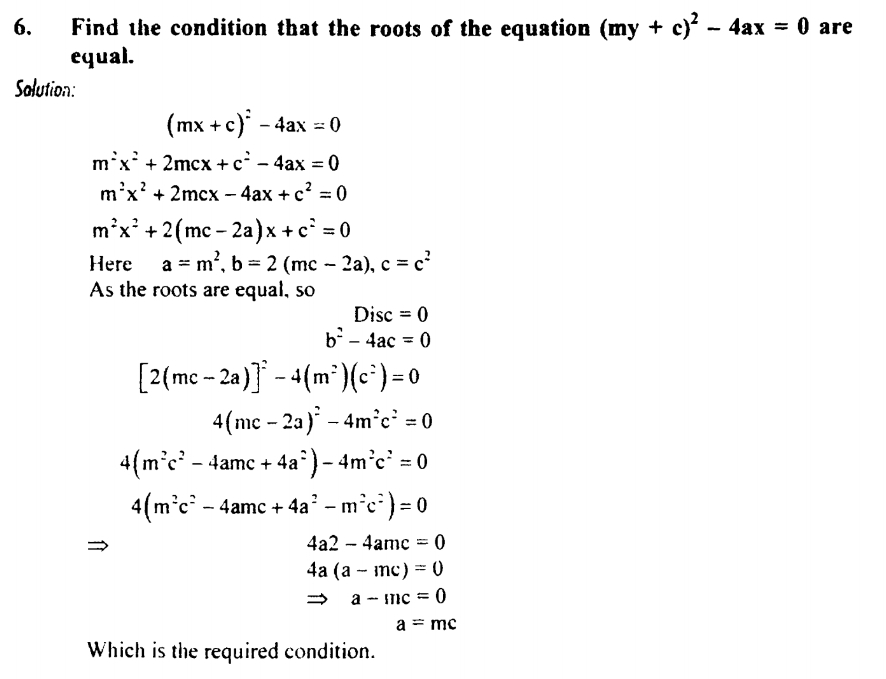


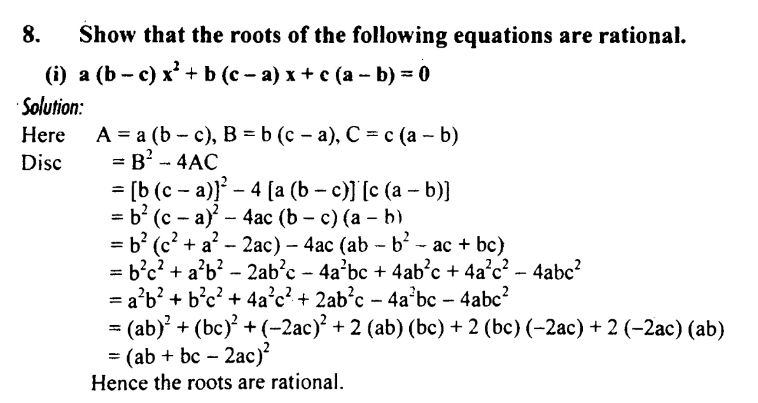










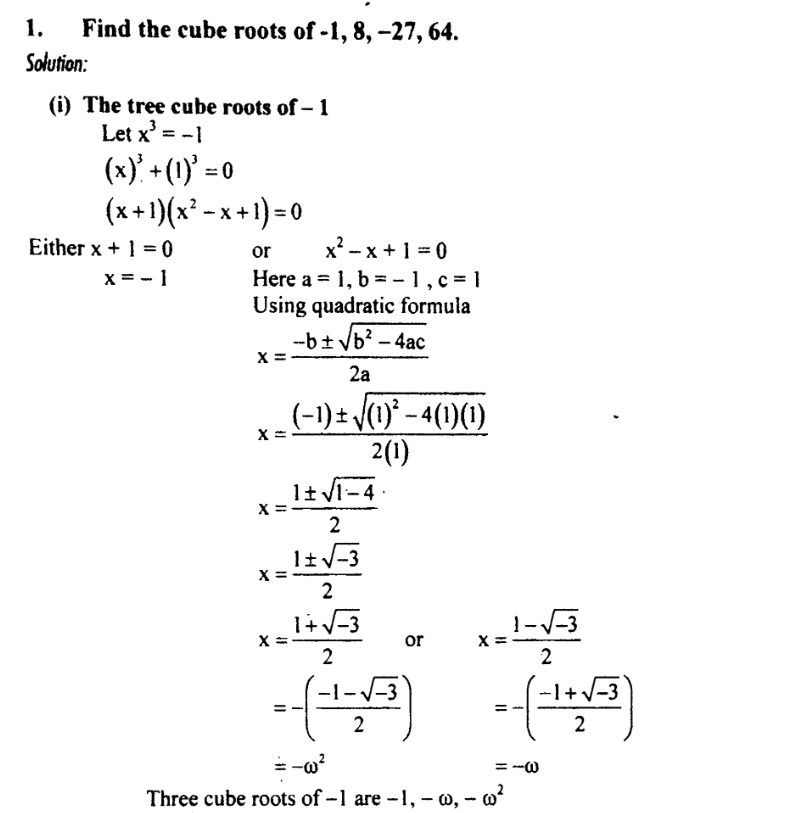


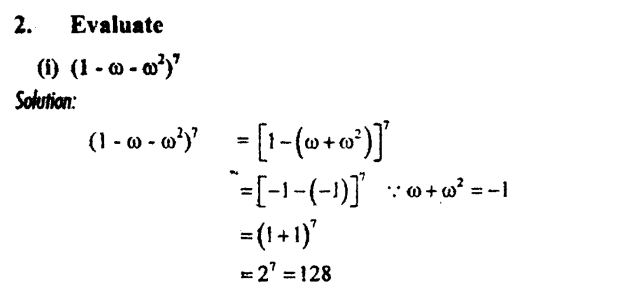
**Homework**

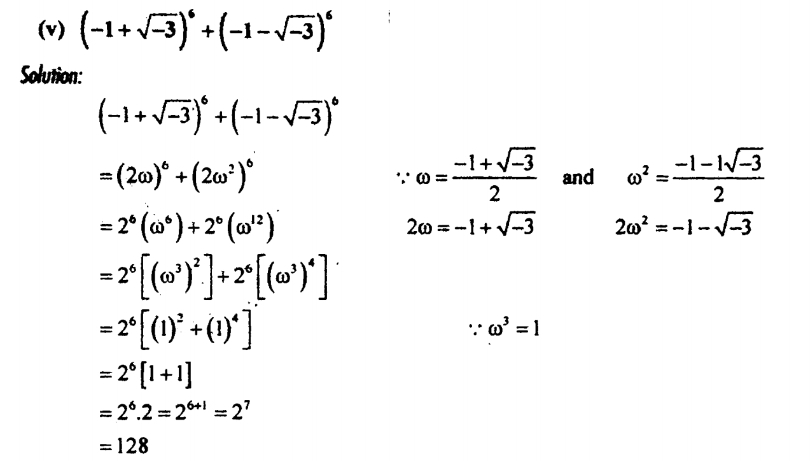
1) Find the discriminant of

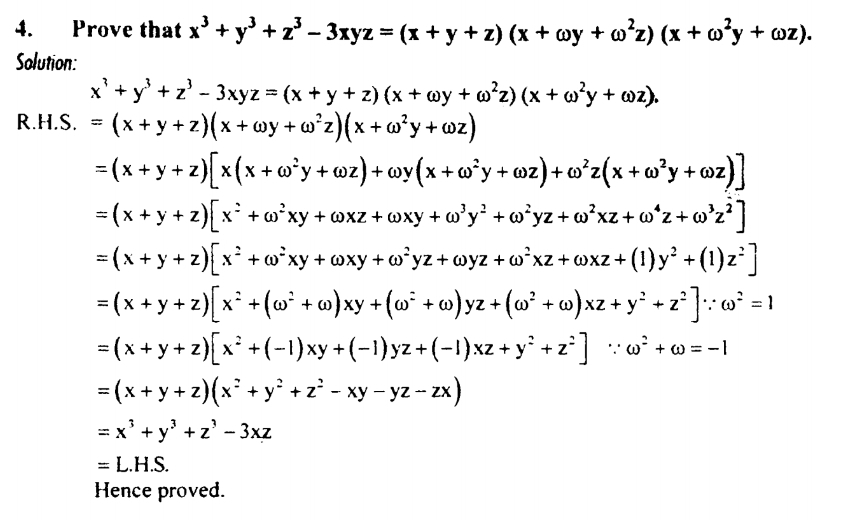
2) Show that has equal roots, if

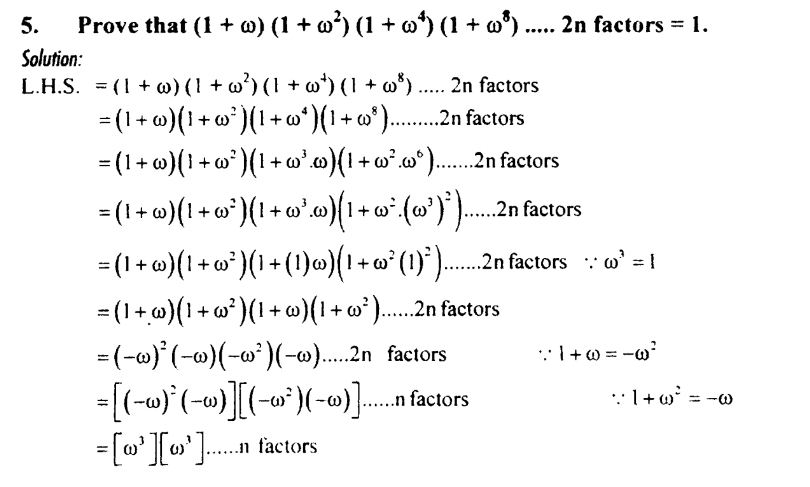
***Exercise 2.2***











**= (1) (1) ……..n factors**

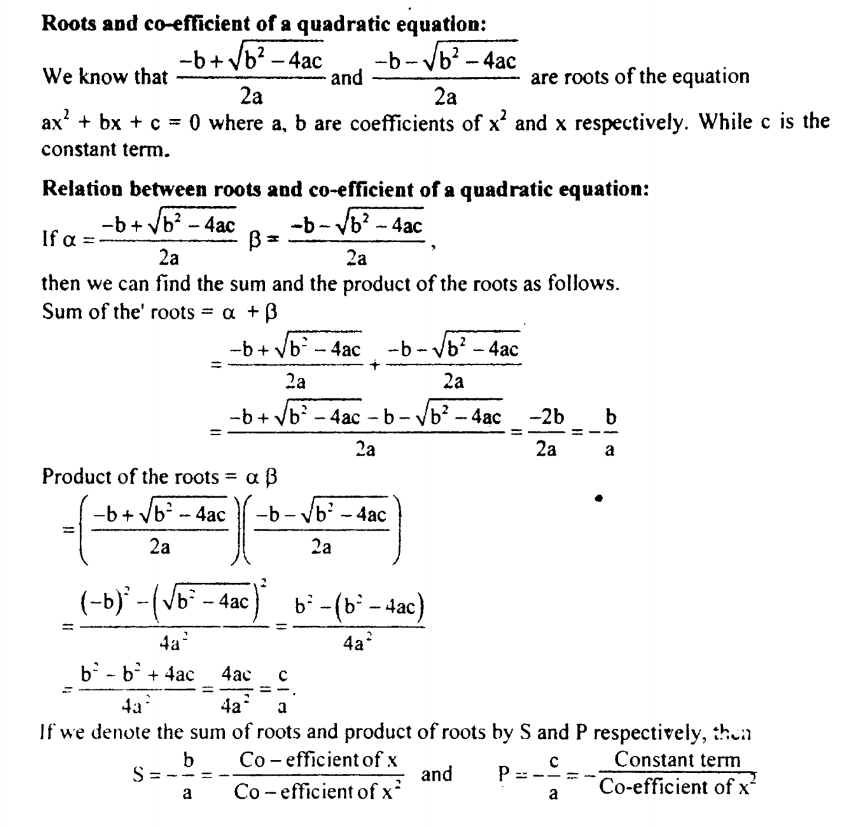
**= 1 = RHS**

**Homework**

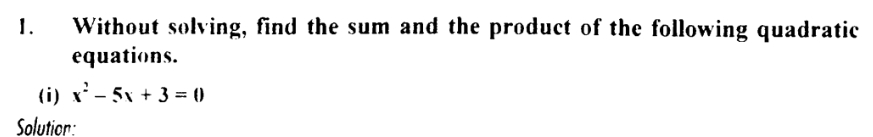
1) Evaluate

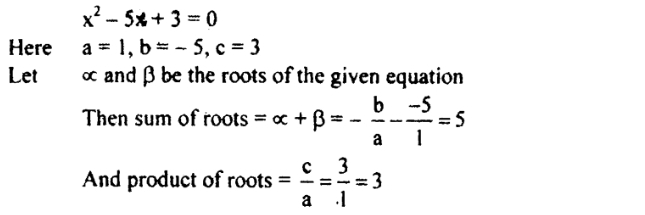
2) Prove that

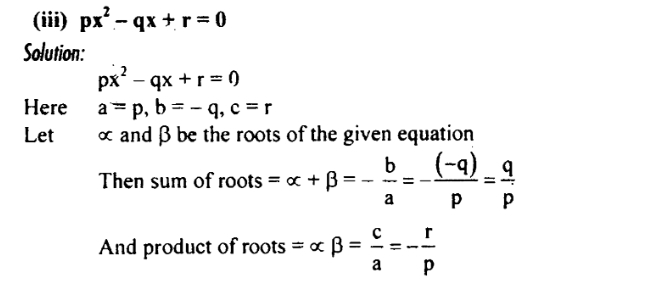
***Exercise 2.3***

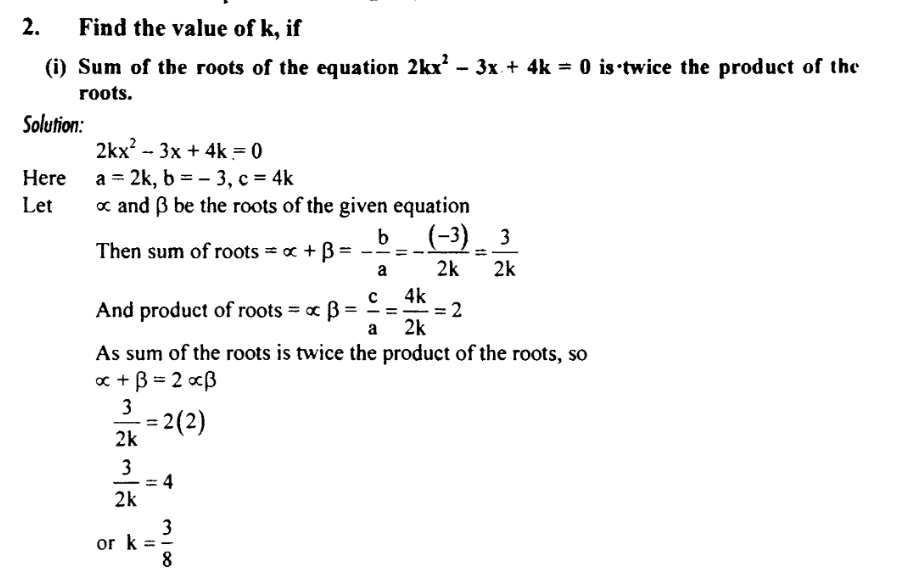


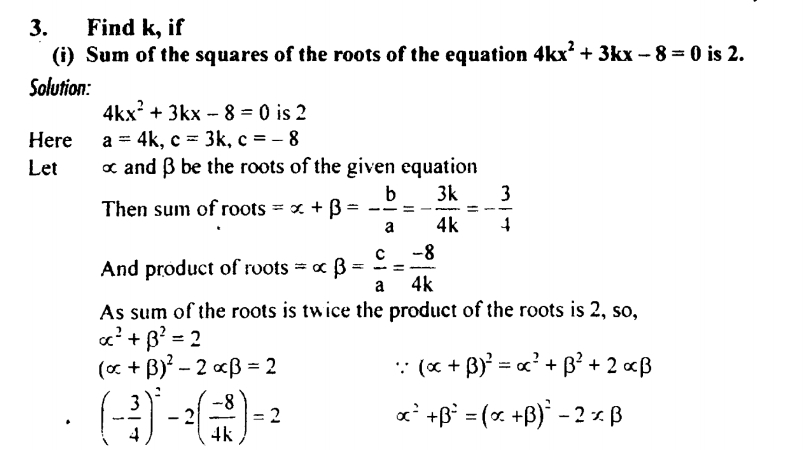
***Exercise 2.3***

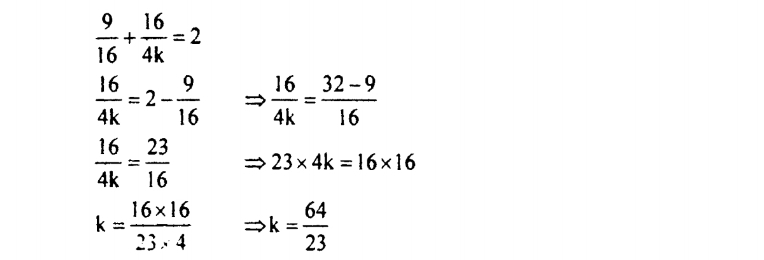


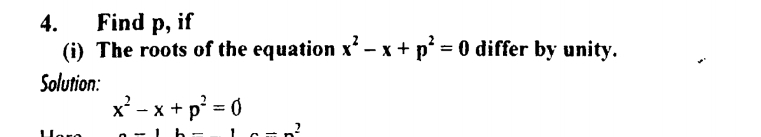


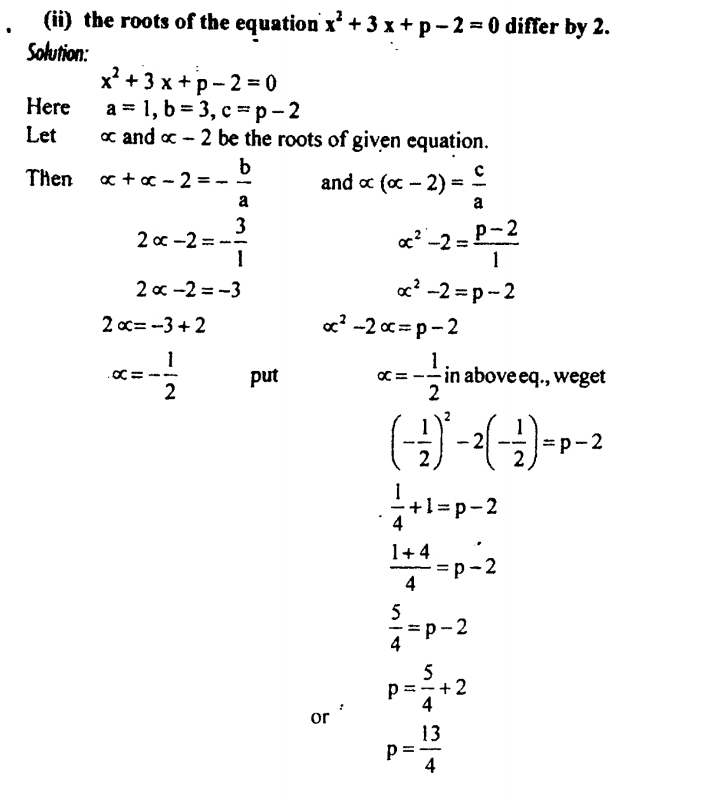


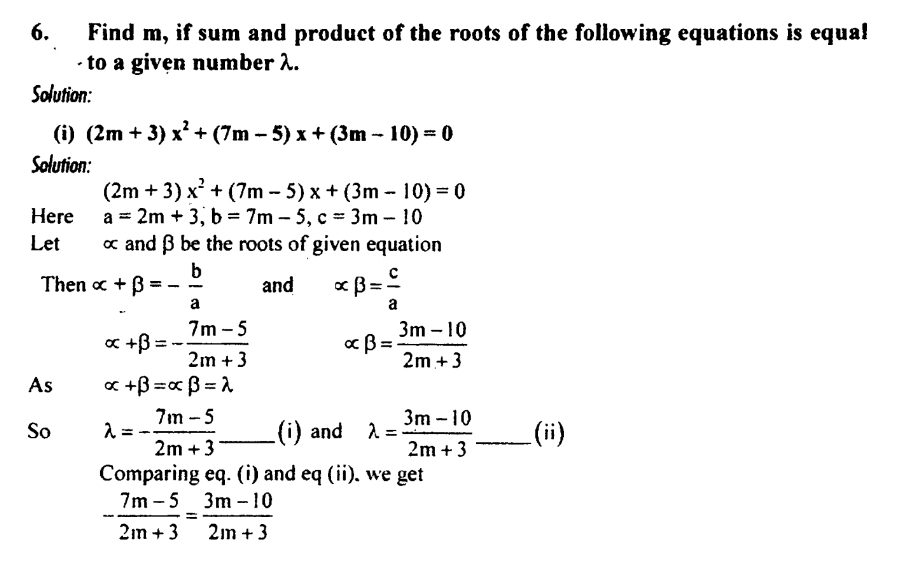


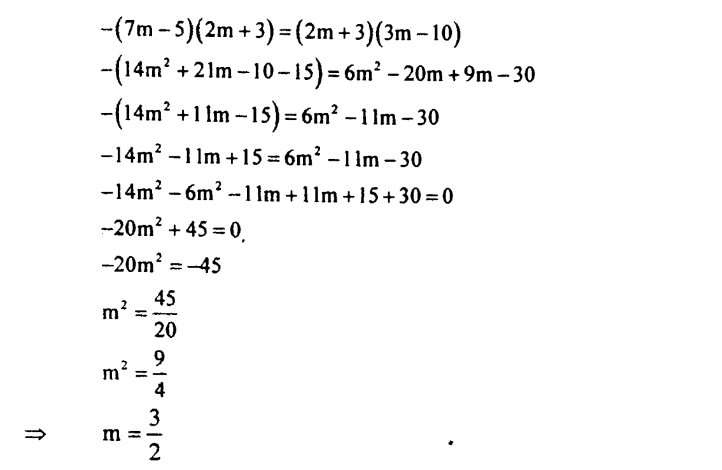










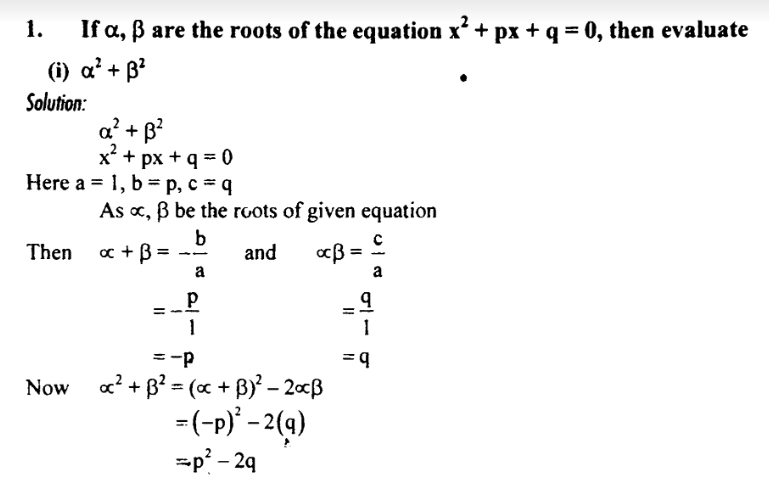


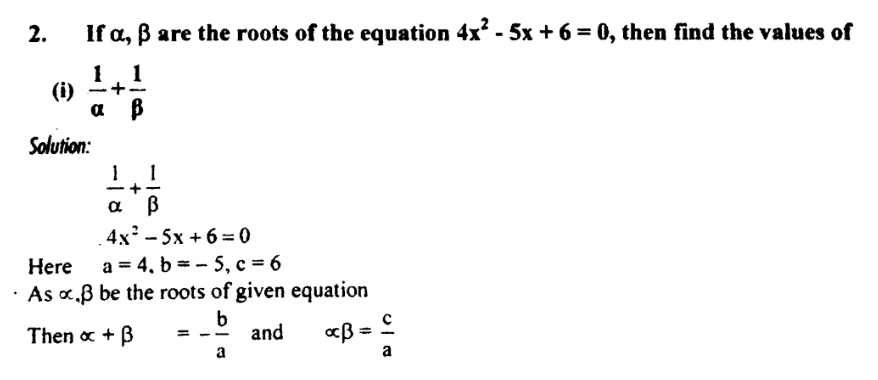
**Homework**

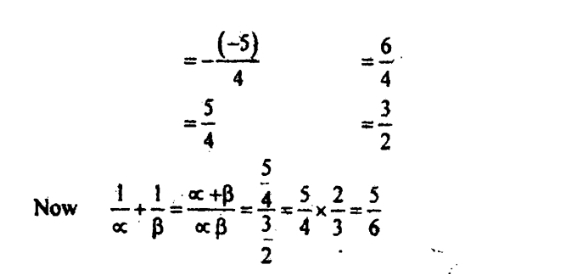
1) Without solving, find the sum and product of the equation

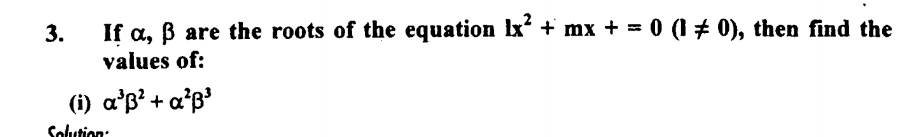
2) Find, if the roots of the equation satisfy the relation

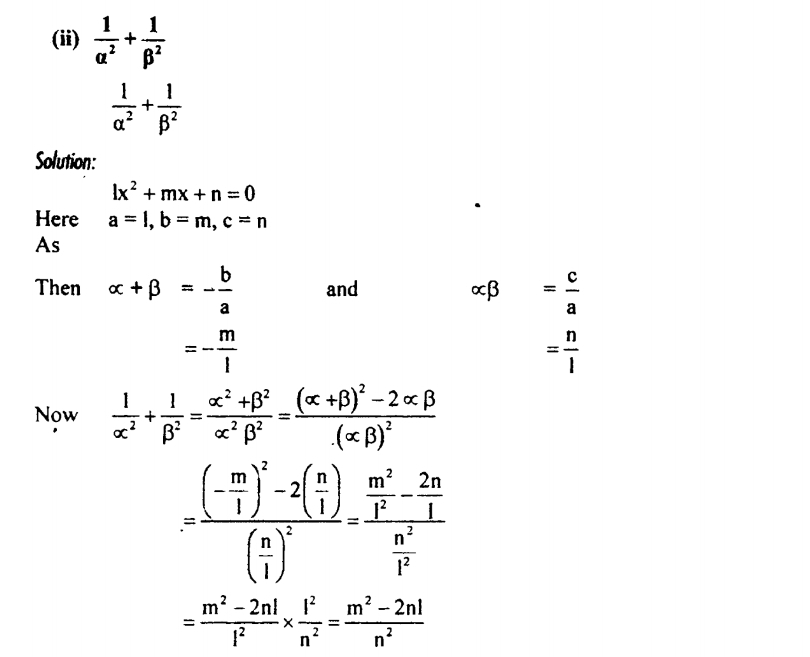
***Exercise 2.4***







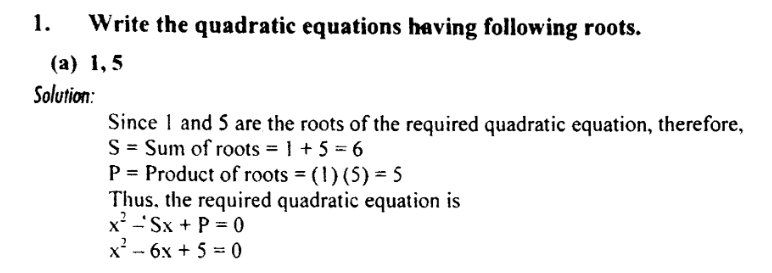


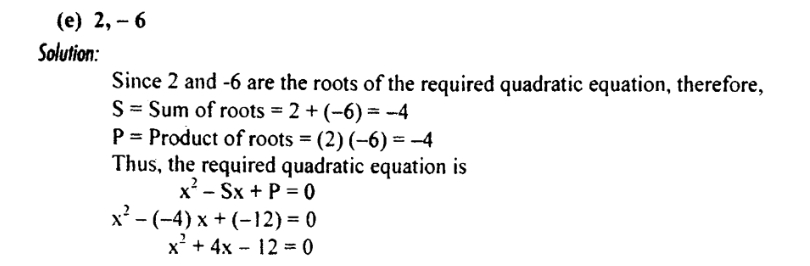


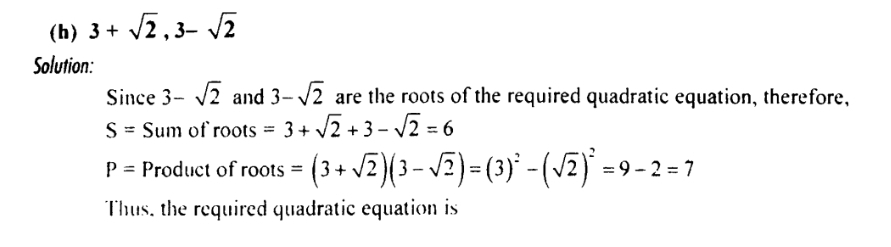
**Homework**

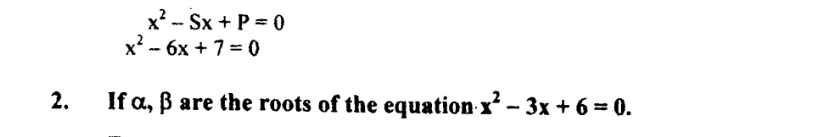
1) If are roots of the equation , then find the values of

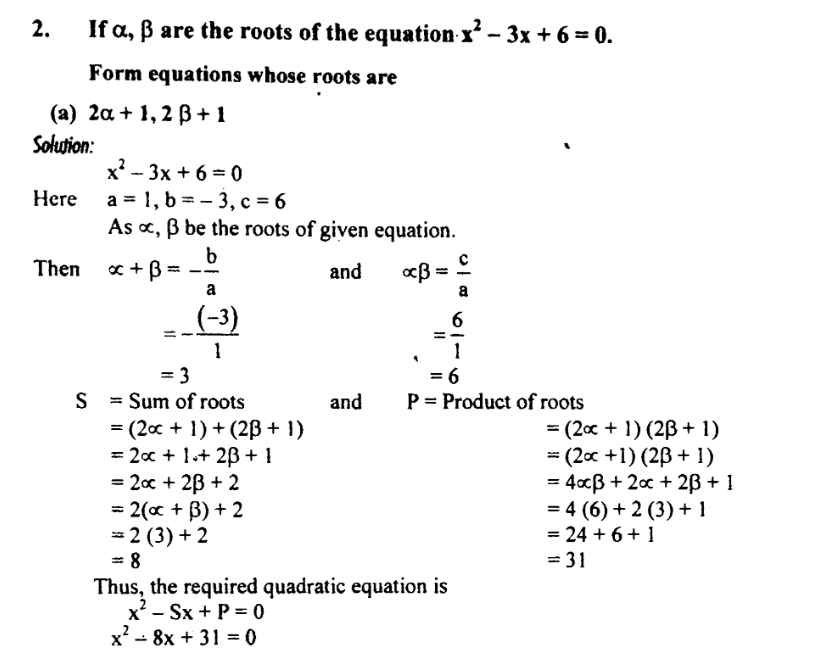
***Exercise 2.5***

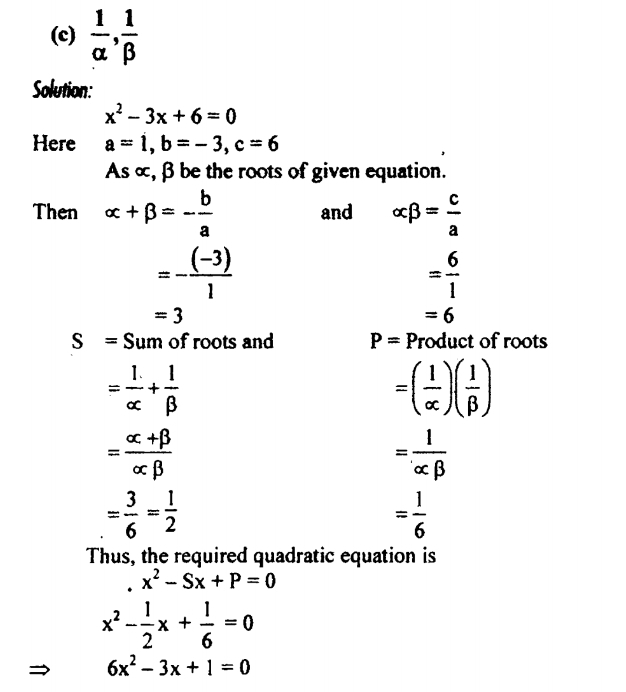


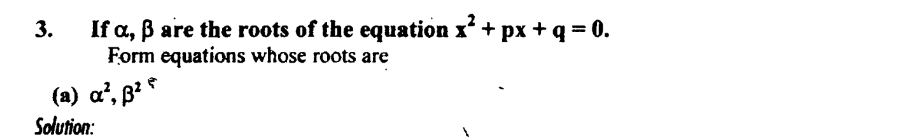


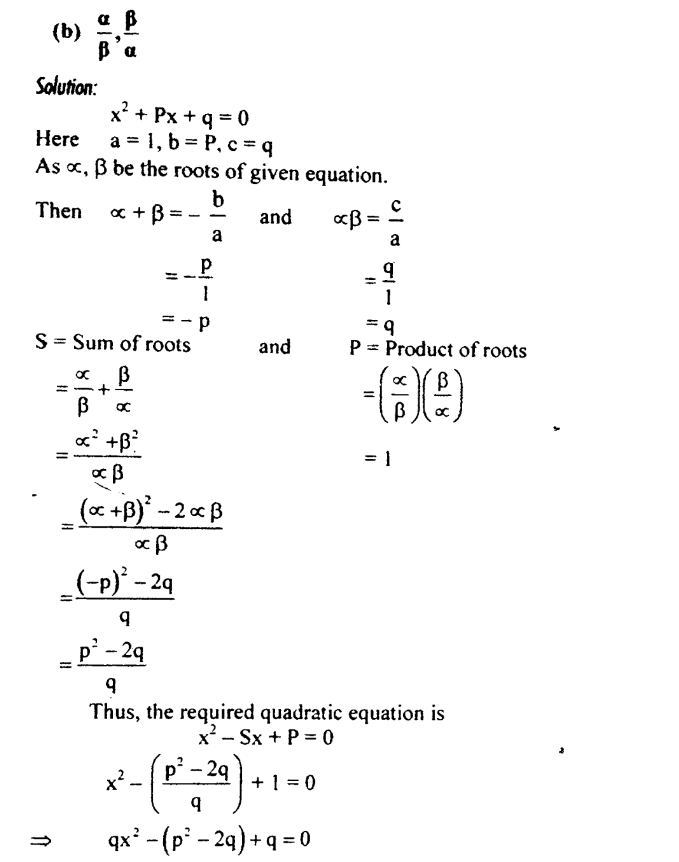








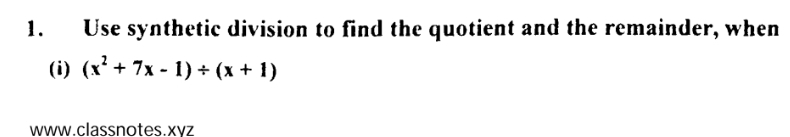


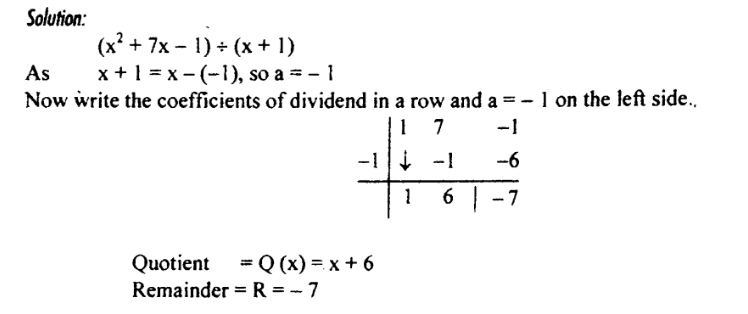


**Homework**

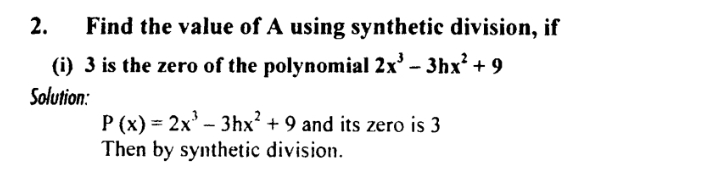
1) Write the quadratic equation having the following roots. a)4,9 b)-1,-7

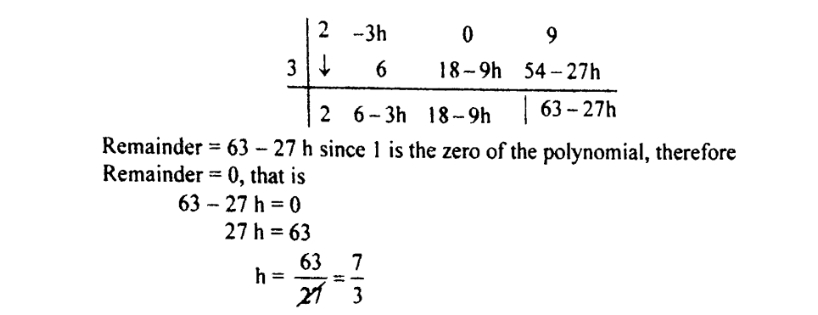
***Exercise 2.6***

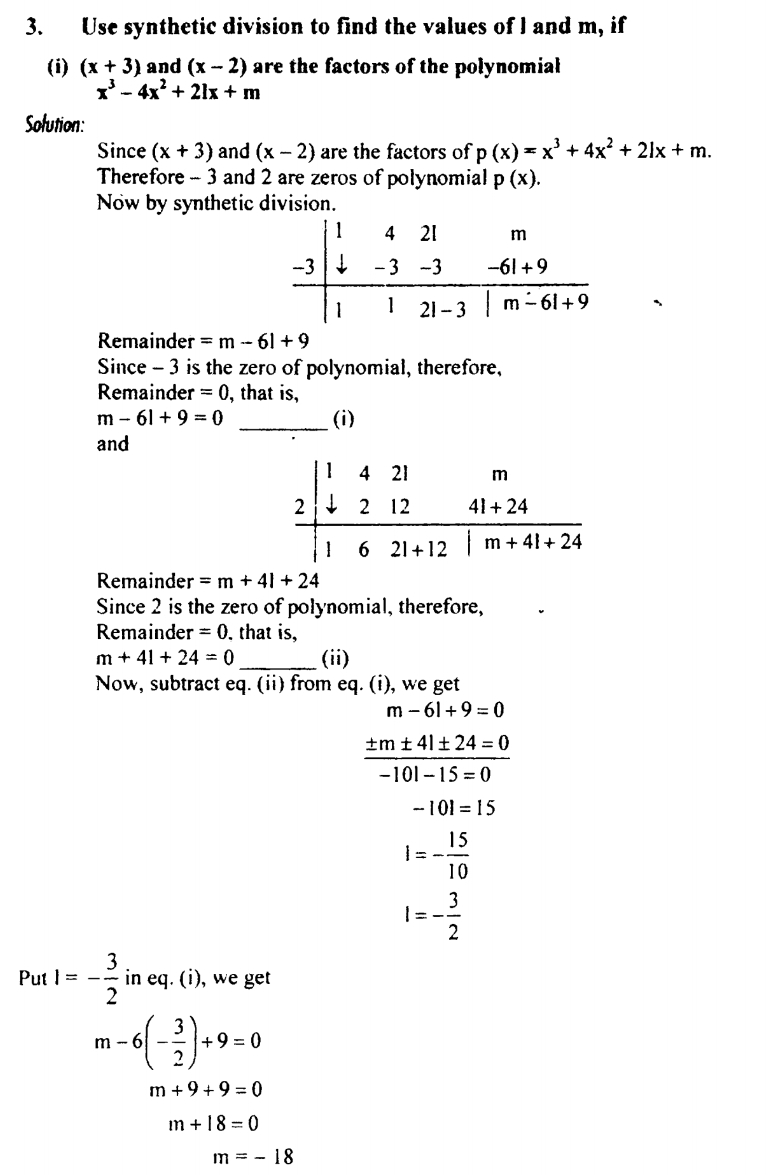


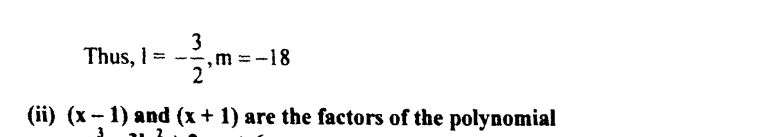


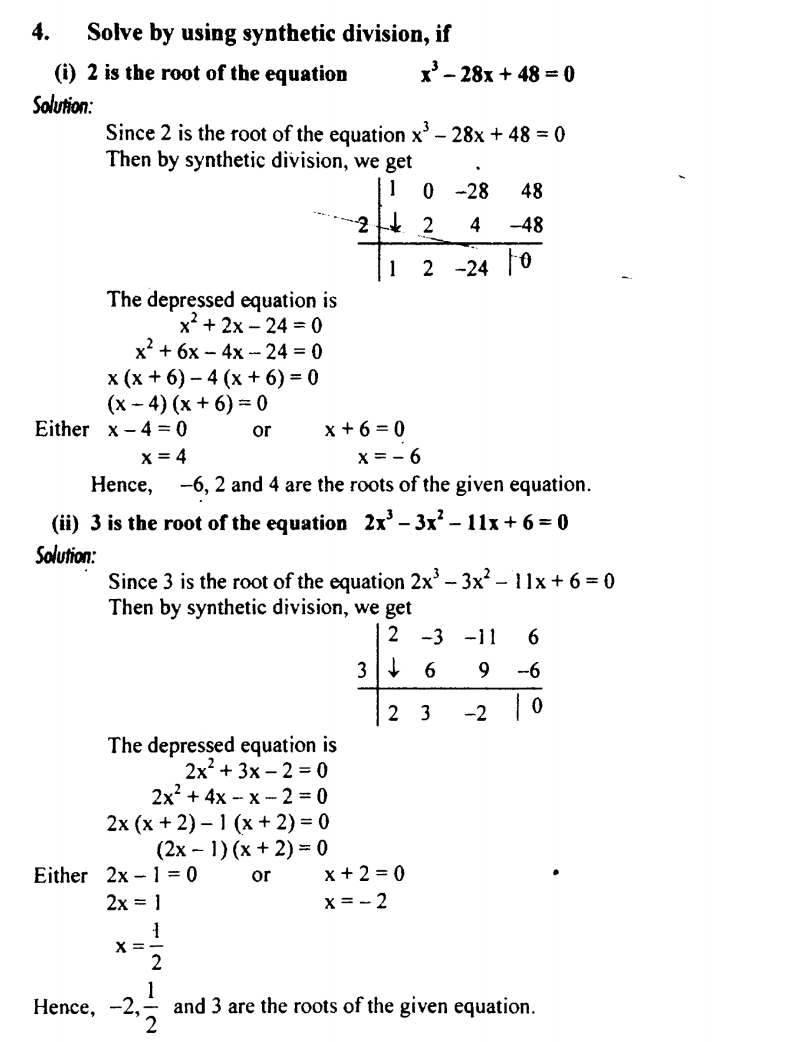
**h**

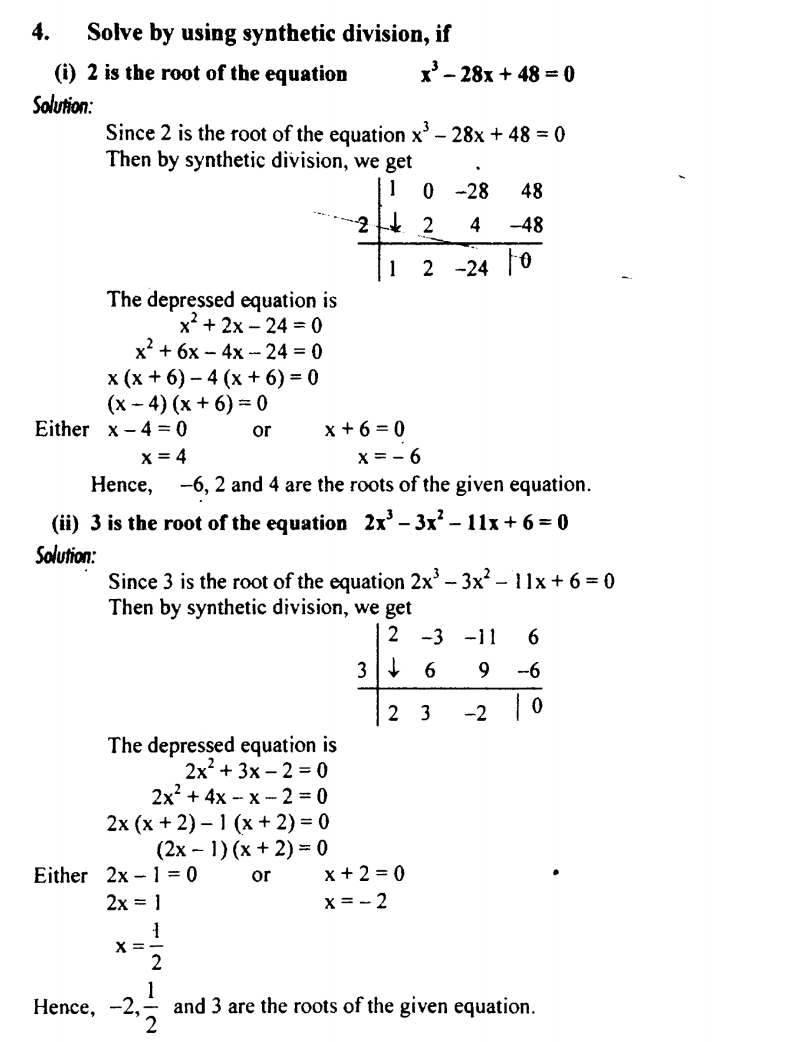








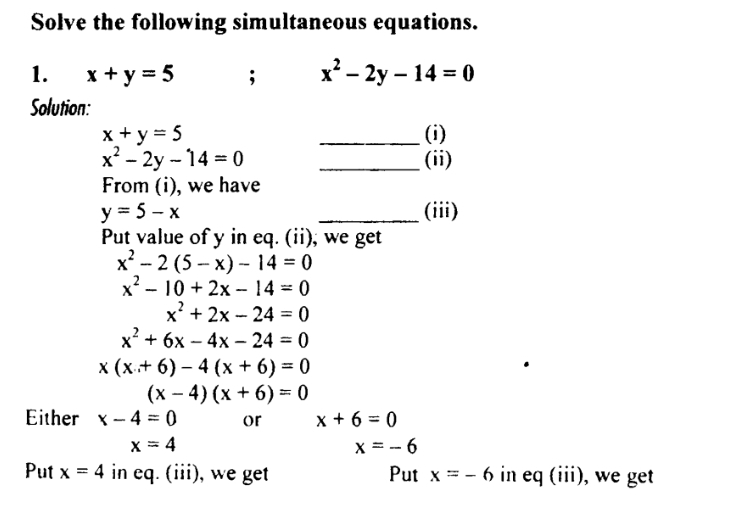


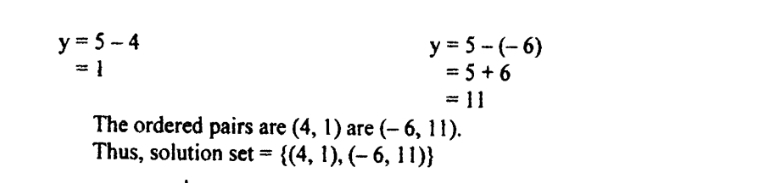


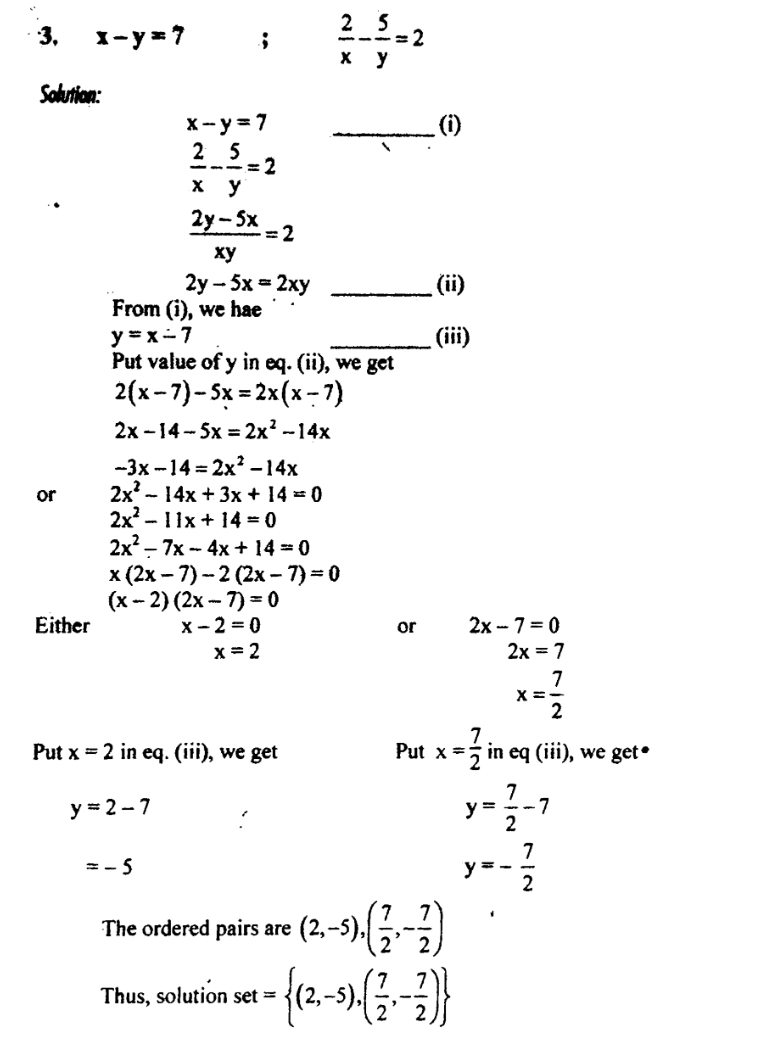
**Homework**

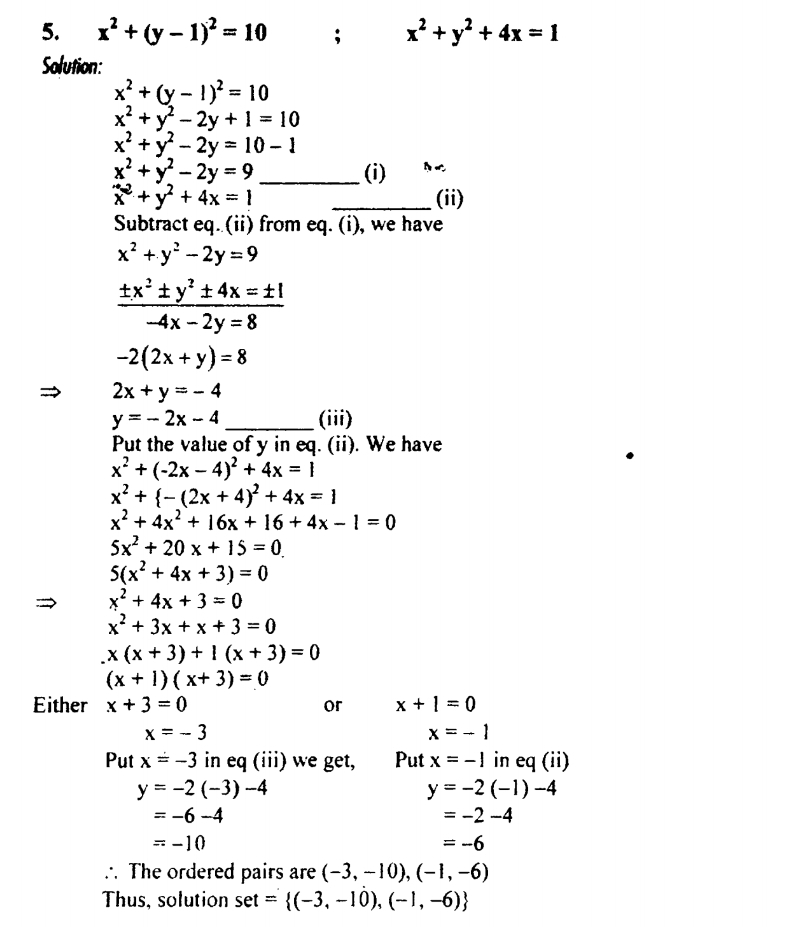
1) Find the value of using synthetic division, if 1 is the zero of the polynomial

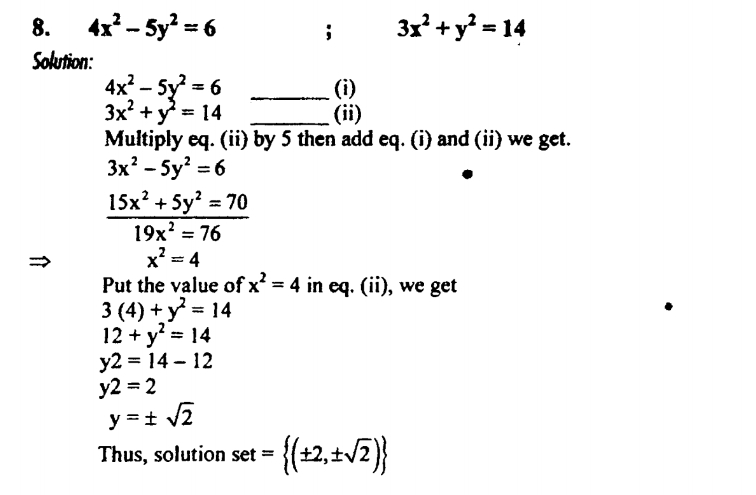
***Exercise 2.7***

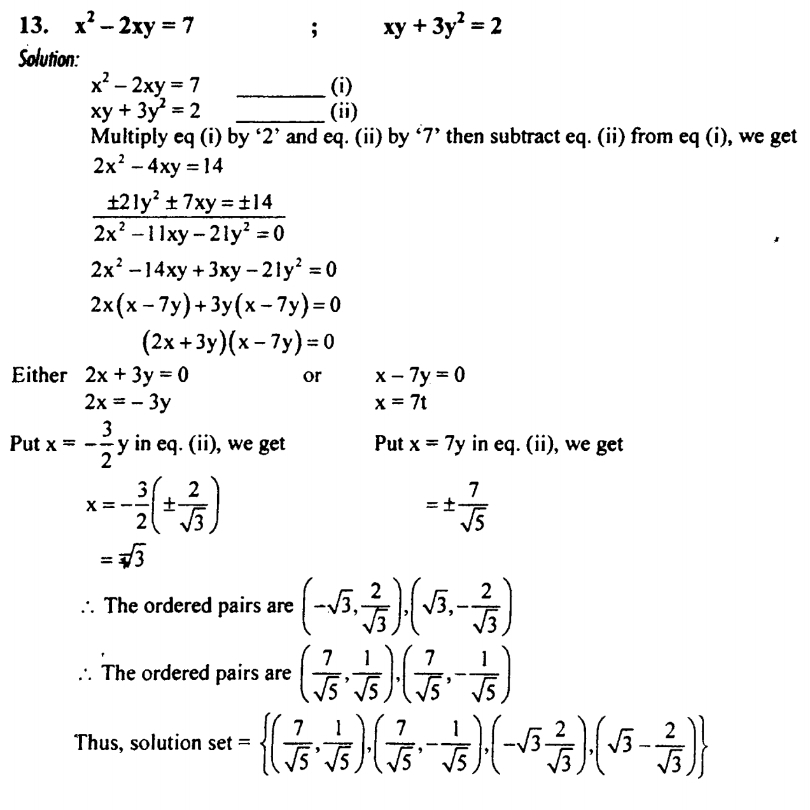








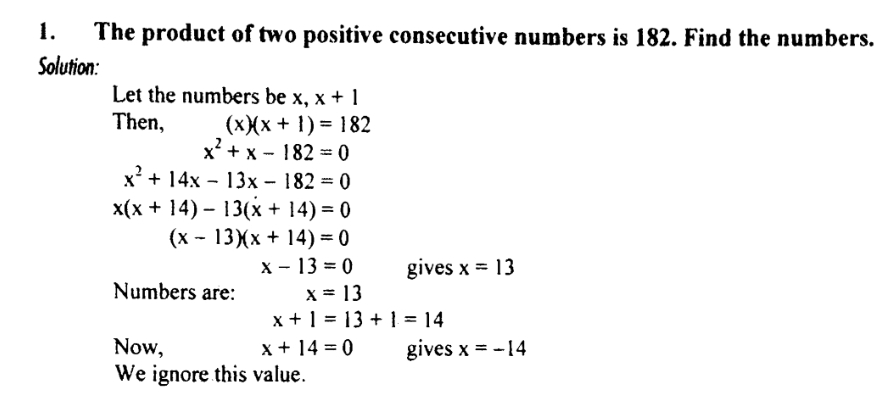


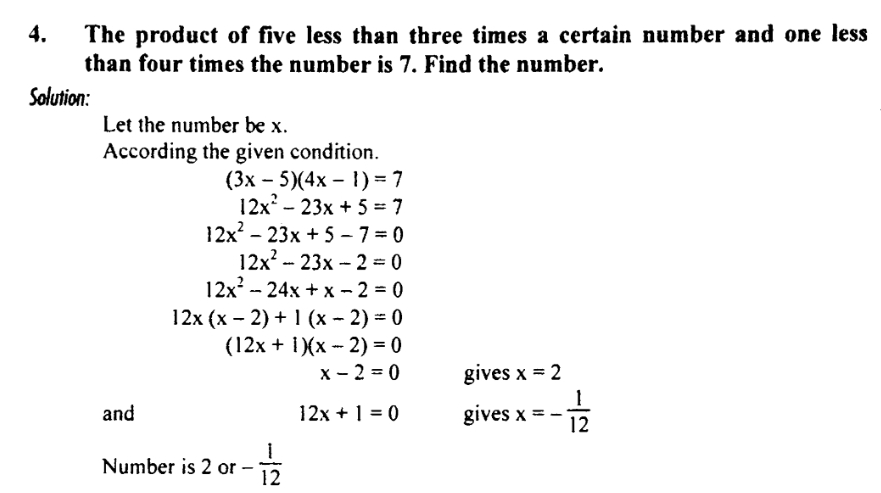


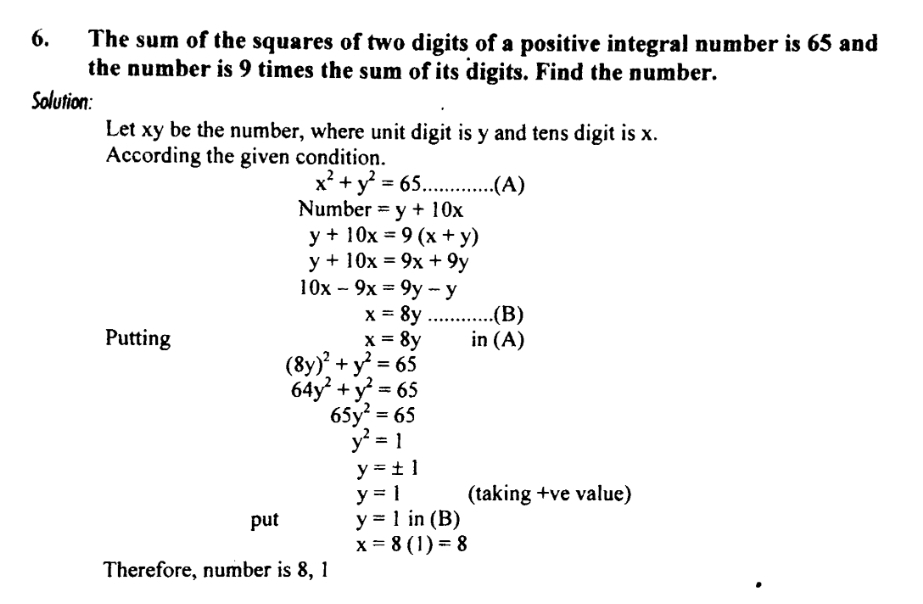
**Homework**

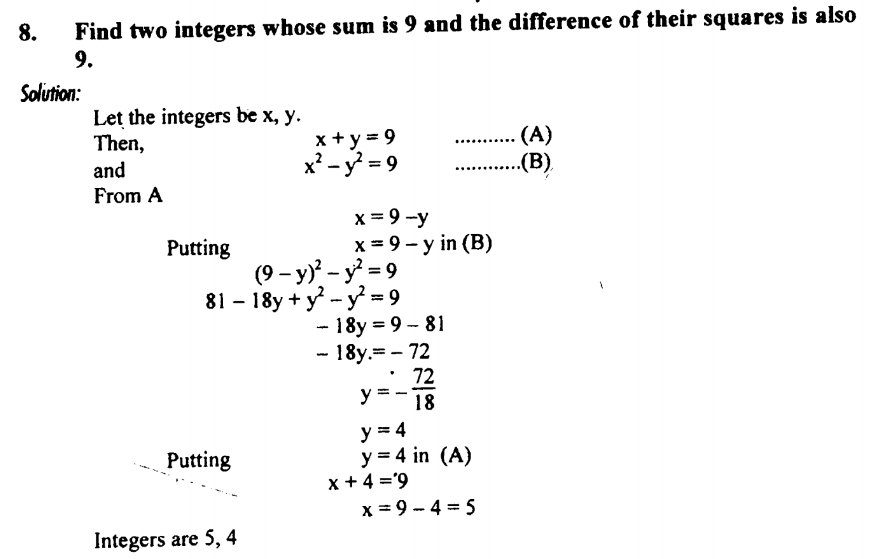
1) Solve the following simultaneous equations

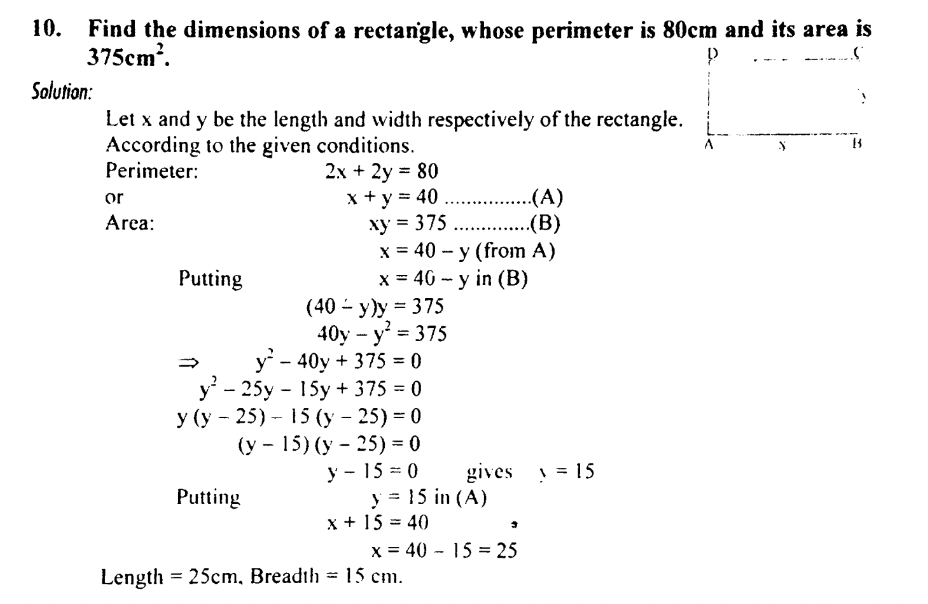
***Exercise 2.8***











**Homework**

1) The sum of the squares of three positive consecutive numbers is 77. Find the numbers.

2) The difference of a number and its reciprocal is . Find the number.

