QUADRATIC EQUATION

EXERCISE

SOLUTION OF QUADRATIC EQUATION BY FACTORIZATION

Q1. The sides (in cm) of a right triangle containing the right angles are 5x and 3x - 1. If the

of the triangle is 60 cm^2 . Find its perimeter.

- Q2. Solve the following quadratic equations $x^2 + 5x + 6 = 0$
- Q3. Solve the following quadratic equations $4x^2 = 25$
- Q4. Solve the following quadratic equations

(i) $x^2 + 5x = 0$ (ii) $x^2 = 3x$ (iii) $x^2 = 4$

Q5. Solve the following quadratic equations

(i) $7x^2 = 8 - 10x$ (ii) $3(x^2 - 4) = 5x$ (iii) x(x + 1) + (x + 2)(x + 3) = 42

Q6. Solve for $x : 12 abx^2 - (9a^2 - 8b^2)x - 6ab = 0$

ANSWER

1. 40 cm 2. -3, -2 3. $\frac{5}{2}$, $-\frac{5}{2}$ 4. (i) 0, -5 5. (i) $x = -2, \frac{4}{7}$ 6. $X = \frac{3a}{4b}, \frac{2b}{3a}$ (ii) $x = -2, \frac{4}{3}$ (iii) x = -6, 3