

Derive and solve quadratic equations by factorisation, completing the square and by use of the formula.

1) Solve

a) $10x^2 - 75x + 45 = 0$ [3]

b) $5x^2 + 21x + 4 = 0$ [2]

c) $10x^2 - 31x + 5 = 0$ [2]

d) $\frac{5}{x} - \frac{6}{x+1} = 1$ [4]

e) $\frac{2x+3}{x-4} + \frac{x+40}{x^2-20} = 2$ [4]

f) $\frac{2(x+3)}{x} - \frac{x}{x+3} = 1$ [5]

g) $\frac{1}{x} + \frac{2}{x+1} = 3$ [7]

h) $\frac{2}{x+4} - \frac{6}{x} = 6$ [7]

i) $\frac{2}{2x+10} - \frac{1}{x+4} = \frac{1}{5}$ [8]

2) Find the value of a and the value of b .

a) $10x^2 + 4x + 9 = 10x + ax^2 + b$ [3]

b) $10x^2 + 40x + 6 = 10x + ax^2 + b$ [3]

c) $x^2 + 12x + 7 = 10x + px^2 + q$ [3]

d) $10x^2 + 70x + 5 = 10x + ax^2 + b$ [3]

e) $x^2 + 9x + 12 = 10x + px^2 + q$ [3]

f) $x^2 + 12x + a = 10x + bx^2 [3]$

g) $x^2 + 16x + a = 10x + bx^2 [3]$

h) $20x^2 + 50x + 3 = 20x + ax^2 + b$ [3]

3) Solve by factoring.

a) $3x^2 - 7x + 20 = 0$ [3]

b) $3x^2 + 2x + 8 = 0$ [3]

c) $5x^2 + 17x + 12 = 0$ [3]

d) $5x^2 + 0x + 18 = 0$ [3]

e) $x^2 - 7x + 6 = 0$ [3]

f) $10x^2 - 25x + 9 = 0$ [3]

4) Solve the equations. Show all your working and give your answers correct to 2 decimal places.

a) $3x^2 + 7x + 3 = 0$ [4]

b) $3x^2 + 7x + 31 = 0$ [4]

c) $3x^2 + 2x + 3 = 0$ [4]

d) $5x^2 + 80x + 2 = 0$ [4]

e) $3x^2 + 11x + 6 = 0$ [4]

Answers:

7 and -4

3 and -3

5.24 and 0.76

-6 and 1

2

-2

- 0.50 and 0.20

-0.75 and -3.00

-2.64 and 1.14

2, -10

2, -10

6, -4

0.5, -1.7, 2.5

-4.5, 0.25

36, -6

64, -8

1, $\frac{1}{4}$, -6, $\frac{1}{10}$

4 and -5/3

1, $\frac{1}{3}$ and -2

3% and -4

9% and -2

1 and 6

9% and 1/2

0.38 and - 3.88

-0.41 and 1.88

-0.55 and 1.20

- 0.25, -4.75

0.41 and 3.76

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