



1. Find the quadratic equation with roots $(\frac{4}{3}, \frac{4}{3})$

- (i) $(3x^2 - 16x + 16) = 0$ (ii) $(9x^2 - 18x + 8) = 0$ (iii) $(9x^2 - 24x + 16) = 0$ (iv) $(3x^2 - 10x + 8) = 0$
(v) $(15x^2 - 32x + 16) = 0$

2. Find the quadratic equation with roots $(\frac{-8}{9}, \frac{-1}{5})$

- (i) $(45x^2 + 49x + 8) = 0$ (ii) $(35x^2 + 47x + 8) = 0$ (iii) $(63x^2 + 65x + 8) = 0$ (iv) $(45x^2 + 31x - 8) = 0$
(v) $(45x^2 + 59x + 10) = 0$

3. Find the quadratic equation with roots $(-4, -4)$

- (i) $(x^2 + 10x + 24) = 0$ (ii) $(x^2 + 8x + 16) = 0$ (iii) $(x^2 + 7x + 12) = 0$ (iv) $(x^2 + 6x + 8) = 0$
(v) $(x^2 + 9x + 20) = 0$

4. Find the quadratic equation with roots $(-2, 4)$

- (i) $(x^2 - 3x - 10) = 0$ (ii) $(x^2 - 2x - 8) = 0$ (iii) $(x^2 - x - 12) = 0$ (iv) $(x^2 + x - 20) = 0$ (v) $(x^2 - 4x - 12) = 0$

5. Find the quadratic equation, the sum of whose roots is -16 and product is 64

- (i) $(x^2 + 19x + 64) = 0$ (ii) $(16x + 64) = 0$ (iii) $(x^2 + 13x + 64) = 0$ (iv) $(x^2 + 16x + 64) = 0$
(v) $(2x^2 + 16x + 64) = 0$

6. Find the quadratic equation, the sum of whose roots is 0 and product is -16

- (i) $(-16) = 0$ (ii) $(2x^2 - 16) = 0$ (iii) $(x^2 - 14) = 0$ (iv) $(x^2 - 19) = 0$ (v) $(x^2 - 16) = 0$

7. Find the quadratic equation, the sum of whose roots is 10 and product is 25

- (i) $(x^2 - 12x + 25) = 0$ (ii) $(x^2 - 10x + 25) = 0$ (iii) $(x^2 - 8x + 25) = 0$ (iv) $(-10x + 25) = 0$
(v) $(2x^2 - 10x + 25) = 0$

8. Find the quadratic equation, the sum of whose roots is $\frac{7}{4}$ and product is $\frac{3}{4}$

- (i) $(31x^2 - 56x + 24) = 0$ (ii) $(32x^2 - 59x + 24) = 0$ (iii) $(33x^2 - 56x + 24) = 0$ (iv) $(32x^2 - 56x + 24) = 0$
(v) $(32x^2 - 53x + 24) = 0$

9. Find the quadratic equation whose roots are $(7+2\sqrt{2})$ and $(7-2\sqrt{2})$

(i) $(x^2-11x+41)=0$ (ii) $(x^2-14x+41)=0$ (iii) $(x^2-17x+41)=0$ (iv) $(2x^2-14x+41)=0$

(v) $(-14x+41)=0$

Assignment Key

1) (iii)

2) (i)

3) (ii)

4) (ii)

5) (iv)

6) (v)

7) (ii)

8) (iv)

9) (ii)