



1. Find the quadratic equation with roots $(\frac{-6}{7}, \frac{-6}{7})$

- (i) $(49x^2 + 70x + 24) = 0$ (ii) $(49x^2 + 84x + 36) = 0$ (iii) $(35x^2 + 72x + 36) = 0$ (iv) $(21x^2 + 32x + 12) = 0$
(v) $(49x^2 + 98x + 48) = 0$

2. Find the quadratic equation with roots $(\frac{-9}{7}, \frac{-1}{8})$

- (i) $(56x^2 + 65x - 9) = 0$ (ii) $(70x^2 + 97x + 9) = 0$ (iii) $(56x^2 + 95x + 11) = 0$ (iv) $(56x^2 + 79x + 9) = 0$
(v) $(40x^2 + 77x + 9) = 0$

3. Find the quadratic equation with roots $(-8, -8)$

- (i) $(x^2 + 17x + 72) = 0$ (ii) $(x^2 + 15x + 56) = 0$ (iii) $(x^2 + 18x + 80) = 0$ (iv) $(x^2 + 16x + 64) = 0$
(v) $(x^2 + 14x + 48) = 0$

4. Find the quadratic equation with roots $(-3, -9)$

- (i) $(x^2 + 15x + 54) = 0$ (ii) $(x^2 + 11x + 24) = 0$ (iii) $(x^2 + 12x + 27) = 0$ (iv) $(x^2 + 13x + 36) = 0$
(v) $(x^2 + 9x + 18) = 0$

5. Find the quadratic equation, the sum of whose roots is -12 and product is 36

- (i) $(2x^2 + 12x + 36) = 0$ (ii) $(x^2 + 9x + 36) = 0$ (iii) $(x^2 + 12x + 36) = 0$ (iv) $(x^2 + 15x + 36) = 0$
(v) $(12x + 36) = 0$

6. Find the quadratic equation, the sum of whose roots is 11 and product is 24

- (i) $(-11x + 24) = 0$ (ii) $(x^2 - 13x + 24) = 0$ (iii) $(2x^2 - 11x + 24) = 0$ (iv) $(x^2 - 8x + 24) = 0$
(v) $(x^2 - 11x + 24) = 0$

7. Find the quadratic equation, the sum of whose roots is $\frac{1}{2}$ and product is $\frac{1}{16}$

- (i) $(63x^2 - 32x + 4) = 0$ (ii) $(65x^2 - 32x + 4) = 0$ (iii) $(64x^2 - 34x + 4) = 0$ (iv) $(64x^2 - 32x + 4) = 0$
(v) $(64x^2 - 29x + 4) = 0$

8. Find the quadratic equation, the sum of whose roots is -3 and product is 2

(i) $(-13x^2 - 42x - 28) = 0$ (ii) $(-15x^2 - 42x - 28) = 0$ (iii) $(-14x^2 - 45x - 28) = 0$ (iv) $(-14x^2 - 40x - 28) = 0$

(v) $(-14x^2 - 42x - 28) = 0$

9. Find the quadratic equation whose roots are $(8 - 9\sqrt{6})$ and $(8 + 9\sqrt{6})$

(i) $(x^2 - 19x - 422) = 0$ (ii) $(x^2 - 16x - 422) = 0$ (iii) $(2x^2 - 16x - 422) = 0$ (iv) $(x^2 - 13x - 422) = 0$

(v) $(-16x - 422) = 0$

Assignment Key

1) (ii)

2) (iv)

3) (iv)

4) (iii)

5) (iii)

6) (v)

7) (iv)

8) (v)

9) (ii)