



1. Find the quadratic equation with roots $(\frac{4}{5}, \frac{4}{5})$

- (i) $(15x^2 - 32x + 16) = 0$ (ii) $(35x^2 - 48x + 16) = 0$ (iii) $(25x^2 - 40x + 16) = 0$ (iv) $(25x^2 - 50x + 24) = 0$
(v) $(25x^2 - 30x + 8) = 0$

2. Find the quadratic equation with roots $(\frac{5}{2}, \frac{5}{4})$

- (i) $(8x^2 - 30x + 25) = 0$ (ii) $(8x^2 - 22x + 15) = 0$ (iii) $(12x^2 - 40x + 25) = 0$ (iv) $(8x^2 - 34x + 35) = 0$
(v) $(4x^2 - 25x + 25) = 0$

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

- (i) $(x^2 - 19x + 88) = 0$ (ii) $(x^2 - 13x + 40) = 0$ (iii) $(x^2 - 15x + 56) = 0$ (iv) $(x^2 - 16x + 64) = 0$
(v) $(x^2 - 17x + 72) = 0$

4. Find the quadratic equation with roots $(7, -9)$

- (i) $(x^2 + x - 56) = 0$ (ii) $(x^2 + 2x - 63) = 0$ (iii) $(x^2 + 4x - 45) = 0$ (iv) $(x^2 - x - 42) = 0$ (v) $(x^2 + 3x - 54) = 0$

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

- (i) $(16x + 64) = 0$ (ii) $(x^2 + 13x + 64) = 0$ (iii) $(x^2 + 18x + 64) = 0$ (iv) $(x^2 + 16x + 64) = 0$
(v) $(2x^2 + 16x + 64) = 0$

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

- (i) $(x^2 - 6x - 16) = 0$ (ii) $(x^2 - 9x - 16) = 0$ (iii) $(x^2 - 3x - 16) = 0$ (iv) $(2x^2 - 6x - 16) = 0$ (v) $(-6x - 16) = 0$

7. Find the quadratic equation, the sum of whose roots is $(\frac{-14}{5})$ and product is $\frac{49}{25}$

- (i) $(24x^2 + 70x + 49) = 0$ (ii) $(26x^2 + 70x + 49) = 0$ (iii) $(25x^2 + 70x + 49) = 0$ (iv) $(25x^2 + 67x + 49) = 0$
(v) $(25x^2 + 72x + 49) = 0$

8. Find the quadratic equation, the sum of whose roots is $(\frac{-20}{7})$ and product is $(\frac{-32}{7})$

- (i) $(-13x^2 - 40x + 64) = 0$ (ii) $(-14x^2 - 40x + 64) = 0$ (iii) $(-14x^2 - 38x + 64) = 0$ (iv) $(-14x^2 - 42x + 64) = 0$
(v) $(-15x^2 - 40x + 64) = 0$

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

- (i) $(x^2 - 17x - 113) = 0$ (ii) $(-14x - 113) = 0$ (iii) $(x^2 - 14x - 113) = 0$ (iv) $(x^2 - 12x - 113) = 0$
(v) $(2x^2 - 14x - 113) = 0$

Assignment Key

1) (iii)

2) (i)

3) (iv)

4) (ii)

5) (iv)

6) (i)

7) (iii)

8) (ii)

9) (iii)