



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

- (i)  $(36x^2 - 12x + 1) = 0$  (ii)  $(48x^2 - 14x + 1) = 0$  (iii)  $(12x^2 - 8x + 1) = 0$  (iv)  $(24x^2 - 10x + 1) = 0$   
(v)  $(36x^2 - 1) = 0$

2. Find the quadratic equation with roots  $(\frac{-7}{9}, \frac{-9}{5})$

- (i)  $(63x^2 + 130x + 63) = 0$  (ii)  $(45x^2 + 98x + 49) = 0$  (iii)  $(5x^2 + 14x + 9) = 0$  (iv)  $(45x^2 + 116x + 63) = 0$

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

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

4. Find the quadratic equation with roots  $(-1, -1)$

- (i)  $(x^2 + x) = 0$  (ii)  $(x^2 + 4x + 3) = 0$  (iii)  $(x^2 + 3x + 2) = 0$  (iv)  $(x^2 - x - 2) = 0$  (v)  $(x^2 + 2x + 1) = 0$

5. Find the quadratic equation, the sum of whose roots is -4 and product is 4

- (i)  $(x^2 + 4x + 4) = 0$  (ii)  $(2x^2 + 4x + 4) = 0$  (iii)  $(4x + 4) = 0$  (iv)  $(x^2 + x + 4) = 0$  (v)  $(x^2 + 7x + 4) = 0$

6. Find the quadratic equation, the sum of whose roots is 15 and product is 56

- (i)  $(x^2 - 17x + 56) = 0$  (ii)  $(-15x + 56) = 0$  (iii)  $(2x^2 - 15x + 56) = 0$  (iv)  $(x^2 - 15x + 56) = 0$   
(v)  $(x^2 - 13x + 56) = 0$

7. Find the quadratic equation, the sum of whose roots is  $\frac{10}{9}$  and product is  $\frac{25}{81}$

- (i)  $(81x^2 - 92x + 25) = 0$  (ii)  $(81x^2 - 88x + 25) = 0$  (iii)  $(81x^2 - 90x + 25) = 0$  (iv)  $(82x^2 - 90x + 25) = 0$   
(v)  $(80x^2 - 90x + 25) = 0$

8. Find the quadratic equation, the sum of whose roots is -5 and product is -6

- (i)  $(-7x^2 - 40x + 48) = 0$  (ii)  $(-8x^2 - 38x + 48) = 0$  (iii)  $(-9x^2 - 40x + 48) = 0$  (iv)  $(-8x^2 - 40x + 48) = 0$   
(v)  $(-8x^2 - 43x + 48) = 0$

9. Find the quadratic equation whose roots are  $(8-4\sqrt{2})$  and  $(8+4\sqrt{2})$

(i)  $(-16x+32)=0$  (ii)  $(x^2-18x+32)=0$  (iii)  $(x^2-16x+32)=0$  (iv)  $(x^2-13x+32)=0$

(v)  $(2x^2-16x+32)=0$

## Assignment Key

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1) (i)	2) (iv)	3) (iii)	4) (v)	5) (i)	6) (iv)
7) (iii)	8) (iv)	9) (iii)			