



1. Solve :  $9x^2 - 6abx + a^2b^2 = 0$

- (i)  $\frac{2ab}{3}, ab$  (ii)  $\frac{2ab}{6}, \frac{ab}{3}$  (iii)  $\frac{ab}{2}, ab$  (iv)  $0, \frac{ab}{3}$  (v)  $\frac{ab}{4}, \frac{ab}{5}$

2. Solve :  $25x^2b^2 + 20axb + 3a^2 = 0$

- (i)  $\frac{3a}{7b}, \frac{a}{7b}$  (ii)  $\frac{3a}{5b}, \frac{a}{5b}$  (iii)  $\frac{a}{5b}, \frac{a}{5b}$  (iv)  $\frac{a}{b}, \frac{3a}{5b}$  (v)  $\frac{a}{b}, \frac{a}{3b}$

3. Solve :  $12x^2 + ax - a^2 = 0$

- (i)  $-a, \frac{a}{3}$  (ii)  $-a, 0$  (iii)  $\frac{a}{5}, \frac{a}{5}$  (iv)  $\frac{a}{3}, \frac{a}{2}$  (v)  $\frac{a}{3}, \frac{2a}{8}$

4. Solve :  $6x^2 - 5bx + b^2 = 0$

- (i)  $\frac{b}{5}, \frac{b}{4}$  (ii)  $\frac{b}{3}, \frac{b}{2}$  (iii)  $\frac{b}{3}, \frac{b}{2}$  (iv)  $b, \frac{3b}{2}$  (v)  $b, b$

5. Solve :  $27x^2a^2 - 33xa + 10 = 0$

- (i)  $\frac{2}{3a}, \frac{5}{9a}$  (ii)  $0, \frac{1}{3a}$  (iii)  $\frac{2}{5a}, \frac{5}{11a}$  (iv)  $\frac{4}{3a}, \frac{7}{9a}$  (v)  $\frac{2}{a}, \frac{5}{7a}$

6. Solve :  $6x^2b^2 + xb - 1 = 0$

- (i)  $\frac{3}{2b}, \frac{1}{3b}$  (ii)  $\frac{1}{b}, \frac{1}{b}$  (iii)  $\frac{1}{2b}, \frac{1}{b}$  (iv)  $\frac{1}{4b}, \frac{1}{5b}$  (v)  $\frac{1}{2b}, \frac{1}{3b}$

7. Solve :  $4x^2 - a^4b^2 = 0$

(i)  $-a^2b, a^2b$  (ii)  $0, a^2b$  (iii)  $-\frac{a^2b}{3}, \frac{a^2b}{3}$  (iv)  $-a^2b, 0$  (v)  $-\frac{a^2b}{2}, \frac{2a^2b}{4}$

8. Solve :  $12x^2a^4b^2 - 4xa^2b - 1 = 0$

(i)  $\frac{1}{2a^2b}, -\frac{1}{6a^2b}$  (ii)  $-\frac{1}{2a^2b}, -\frac{1}{2a^2b}$  (iii)  $\frac{1}{4a^2b}, -\frac{1}{8a^2b}$  (iv)  $\frac{1}{a^2b}, -\frac{1}{4a^2b}$  (v)  $\frac{3}{2a^2b}, \frac{1}{6a^2b}$

9. Solve :  $35x^2b^2 - 2a^2xb - 24a^4 = 0$

(i)  $\frac{4a^2}{7b}, -\frac{6a^2}{5b}$  (ii)  $\frac{8a^2}{7b}, -\frac{2a^2}{5b}$  (iii)  $\frac{2a^2}{3b}, -\frac{4a^2}{7b}$  (iv)  $\frac{6a^2}{5b}, -\frac{4a^2}{3b}$  (v)  $\frac{6a^2}{7b}, -\frac{4a^2}{5b}$

10. Solve :  $6x^2a^4 - 5bxa^2 + b^2 = 0$

(i)  $\frac{b}{4a^2}, \frac{b}{4a^2}$  (ii)  $-\frac{b}{2a^2}, 0$  (iii)  $\frac{b}{2a^2}, \frac{2b}{6a^2}$  (iv)  $\frac{3b}{2a^2}, \frac{2b}{3a^2}$  (v)  $\frac{b}{a^2}, \frac{b}{2a^2}$

11. Solve :  $21x^2 + 4ab^2x - a^2b^4 = 0$

(i)  $\frac{3ab^2}{7}, \frac{ab^2}{3}$  (ii)  $\frac{ab^2}{7}, -\frac{ab^2}{3}$  (iii)  $\frac{ab^2}{5}, -ab^2$  (iv)  $\frac{ab^2}{9}, -\frac{ab^2}{5}$  (v)  $-\frac{ab^2}{7}, -ab^2$

12. Solve :  $6x^2 - ab^2x - a^2b^4 = 0$

(i)  $-\frac{ab^2}{5}, \frac{ab^2}{4}$  (ii)  $-ab^2, ab^2$  (iii)  $-\frac{ab^2}{3}, \frac{ab^2}{2}$  (iv)  $-ab^2, -\frac{ab^2}{2}$  (v)  $\frac{ab^2}{3}, \frac{3ab^2}{2}$

13. Solve :  $18x^2a^2 + 17b^2xa + 4b^4 = 0$

(i)  $-\frac{4b^2}{9a}, -\frac{b^2}{2a}$  (ii)  $-\frac{2b^2}{3a}, -\frac{b^2}{a}$  (iii)  $-\frac{4b^2}{11a}, -\frac{b^2}{3a}$  (iv)  $-\frac{4b^2}{7a}, -\frac{b^2}{a}$  (v)  $-\frac{2b^2}{9a}, 0$

14. Solve :  $35x^2b^4 - 2axb^2 - 24a^2 = 0$

(i)  $\frac{2a}{3b^2}, -\frac{4a}{7b^2}$  (ii)  $\frac{8a}{7b^2}, -\frac{2a}{5b^2}$  (iii)  $\frac{6a}{7b^2}, -\frac{4a}{5b^2}$  (iv)  $\frac{6a}{5b^2}, -\frac{4a}{3b^2}$  (v)  $\frac{4a}{7b^2}, -\frac{6a}{5b^2}$

15. Solve :  $8x^2 + 4x + 6xb + 3b = 0$

(i)  $-\frac{1}{2}, -\frac{3b}{4}$  (ii)  $-\frac{1}{4}, -\frac{b}{2}$  (iii)  $-\frac{1}{2}, -\frac{b}{4}$  (iv)  $-\frac{3}{2}, -\frac{5b}{4}$  (v)  $-1, -\frac{3b}{2}$

16. Solve :  $15x^2b - 9xb + 10x - 6 = 0$

(i)  $-\frac{3}{7}, -\frac{2}{5b}$  (ii)  $-\frac{1}{5}, -\frac{4}{3b}$  (iii)  $1, 0$  (iv)  $-\frac{3}{5}, -\frac{2}{3b}$  (v)  $1, -\frac{2}{b}$

17. Solve :  $10x^2 + 5ax + 8x + 4a = 0$

(i)  $-\frac{a}{2}, -\frac{4}{5}$  (ii)  $-a, -\frac{6}{5}$  (iii)  $-\frac{a}{3}, -\frac{4}{7}$  (iv)  $-a, -\frac{4}{3}$  (v)  $0, -\frac{2}{5}$

18. Solve :  $10x^2 - 5x - 2xb + b = 0$

(i)  $0, -\frac{b}{5}$  (ii)  $-\frac{2}{4}, -\frac{b}{5}$  (iii)  $-\frac{1}{3}, -\frac{b}{7}$  (iv)  $1, -\frac{b}{3}$  (v)  $1, -\frac{3b}{5}$

19. Solve :  $20x^2a + 15x - 4xa - 3 = 0$

(i)  $-\frac{3}{4a}, -\frac{1}{5}$  (ii)  $-\frac{3}{2a}, -\frac{1}{3}$  (iii)  $-\frac{1}{2a}, -\frac{1}{7}$  (iv)  $-\frac{1}{4a}, -\frac{3}{5}$  (v)  $-\frac{5}{4a}, -\frac{1}{5}$

20. Solve :  $36x^2b + 30xb + 6x + 5 = 0$

(i)  $-\frac{5}{8}, -\frac{1}{8b}$  (ii)  $-\frac{7}{6}, -\frac{1}{2b}$  (iii)  $-\frac{5}{4}, -\frac{1}{4b}$  (iv)  $-\frac{1}{2}, -\frac{1}{6b}$  (v)  $-\frac{5}{6}, -\frac{1}{6b}$

## Assignment Key

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1) (ii)	2) (ii)	3) (v)	4) (ii)	5) (i)	6) (v)
7) (v)	8) (i)	9) (v)	10) (iii)	11) (ii)	12) (iii)
13) (i)	14) (iii)	15) (i)	16) (iv)	17) (i)	18) (ii)
19) (i)	20) (v)				