

# Quadratic Equations

1. I.  $143x^2 + 43x - 66 = 0$  II.  $33y^2 - 40y + 12 = 0$

2. I.  $72x^2 - 101x + 35 = 0$  II.  $45y^2 - 62y + 21 = 0$

3. I.  $22x^2 + 6\sqrt{11}x - 8 = 0$  II.  $3y^2 + 14y - 5 = 0$

4. I.  $56x^2 + 15x - 56 = 0$  II.  $7y^2 - 34y - 48 = 0$

5. I.  $45x^2 + 17\sqrt{15}x + 24 = 0$  II.  $y^2 + 7y + 12 = 0$

6. I.  $117x^2 + 128x + 35 = 0$  II.  $39y^2 - 31y - 28 = 0$

7. I.  $36x^2 + 55x + 21 = 0$  II.  $132y^2 - 17y - 30 = 0$

8. I.  $12x^2 - 29x + 15 = 0$  II.  $54y^2 - 20\sqrt{18} + 33 = 0$

9. I.  $x^5 - 41x^3 + 400x = 0$  II.  $y^2 - 14y + 30 = -18$

10. I.  $x^2 - 3 = 2x$  II.  $y^2 + 5y + 6 = 0$

11. I.  $x^2 - 25x + 114 = 0$  II.  $y^2 - 10y + 24 = 0$

12. I.  $48x^2 - 24x + 3 = 0$  II.  $55y^2 + 53y + 12 = 0$

13. I.  $x^2 - 7\sqrt{3}x + 36 = 0$  II.  $y^2 - 11\sqrt{3}y + 84 = 0$

14. I.  $x^2 = 361$  II.  $y^2 = 7269 + 731$

15. I.  $x^2 + 5x + 6 = 0$  II.  $y^2 - 4y - 12 = 0$

16. I.  $25x^2 - 90x + 72 = 0$  II.  $y^2 + 26y + 168 = 0$

17. I.  $20x^2 - 108x + 144 = 0$  II.  $8y^2 + 18y + 4 = 0$

18. I.  $3x^2 - 8x - 16 = 0$  II.  $3y^2 - 19y + 28 = 0$

19. I.  $3x^2 - 5x - 12 = 0$  II.  $2y^2 + 15y + 25 = 0$

20. I.  $2x^2 + 5x + 2 = 0$  II.  $6y^2 + 69y + 198 = 0$