

## Mathematics

### Answers - Solving Quadratic Equations (Exercise A to C)

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#### Exercise A

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|-----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1. $-3, -4$           | 2. $-2, -5$                    | 3. $3, -5$                      | 4. $-2, -3$                     | 5. $2, 6$                       |
| 6. $-3, -7$           | 7. $2, 3$                      | 8. $5, -1$                      | 9. $-7, 2$                      | 10. $-\frac{1}{2}, 2$           |
| 11. $\frac{2}{3}, -4$ | 12. $1\frac{1}{2}, -5$         | 13. $\frac{2}{3}, 1\frac{1}{2}$ | 14. $\frac{1}{4}, 7$            | 15. $\frac{3}{5}, -\frac{1}{2}$ |
| 16. $7, 8$            | 17. $\frac{5}{6}, \frac{1}{2}$ | 18. $7, -9$                     | 19. $-1, -1$                    | 20. $3, 3$                      |
| 21. $-5, -5$          | 22. $7, 7$                     | 23. $-\frac{1}{3}, \frac{1}{2}$ | 24. $-1\frac{1}{4}, 2$          | 25. $13, -5$                    |
| 26. $-3, \frac{1}{6}$ | 27. $\frac{1}{10}, -2$         | 28. $1, 1$                      | 29. $\frac{2}{9}, -\frac{1}{4}$ | 30. $-\frac{1}{4}, \frac{3}{5}$ |
| 31. $\pm 1, \pm 2$    | 32. $\pm 2, \pm 3$             | 33. $\pm\frac{1}{2}, \pm 2$     | 34. $1, 2$                      |                                 |
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#### Exercise B

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|-----------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| 1. $0, 3$             | 2. $0, -7$                      | 3. $0, 1$                       | 4. $0, \frac{1}{3}$   | 5. $4, -4$            |
| 6. $7, -7$            | 7. $\frac{1}{2}, -\frac{1}{2}$  | 8. $\frac{2}{3}, -\frac{2}{3}$  | 9. $0, -1\frac{1}{2}$ | 10. $0, 1\frac{1}{2}$ |
| 11. $0, 5\frac{1}{2}$ | 12. $\frac{1}{4}, -\frac{1}{4}$ | 13. $\frac{1}{2}, -\frac{1}{2}$ | 14. $0, \frac{5}{8}$  | 15. $0, \frac{1}{12}$ |
| 16. $0, 6$            | 17. $0, 11$                     | 18. $0, 1\frac{1}{2}$           | 19. $0, 1$            | 20. $0, 4$            |
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#### Exercise C

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|--------------------------------|-----------------------|----------------------------------|------------------------|------------------------|
| 1. $-\frac{1}{2}, -5$          | 2. $-\frac{2}{3}, -3$ | 3. $-\frac{1}{2}, -\frac{2}{3}$  | 4. $\frac{1}{3}, 3$    | 5. $\frac{2}{5}, 1$    |
| 6. $\frac{1}{3}, 1\frac{1}{2}$ | 7. $-0.63, -2.37$     | 8. $-0.27, -3.73$                | 9. $0.72, 0.28$        | 10. $6.70, 0.30$       |
| 11. $0.19, -2.69$              | 12. $0.85, -1.18$     | 13. $0.61, -3.28$                | 14. $-1\frac{2}{3}, 4$ | 15. $-1\frac{1}{2}, 5$ |
| 16. $3.56, -0.56$              | 17. $0.16, -3.16$     | 18. $-\frac{1}{2}, 2\frac{1}{3}$ | 19. $-\frac{1}{3}, -8$ | 20. $1\frac{2}{3}, -1$ |
| 21. $2.28, 0.22$               | 22. $-0.35, -5.65$    | 23. $-\frac{2}{3}, \frac{1}{3}$  | 24. $-0.58, 2.58$      | 25. (a) $0.2, 4.8$     |
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