

Sample formatting using multienumerate

Sometimes we want to typeset the solutions to exercises. This is easy to do using the `multienumerate` environment.

Answers to All Exercises

- | | | | |
|---|---|-------------------------------------|--------------------|
| 1. Not | 2. Linear | 3. Not | 4. Quadratic |
| 5. Not | 6. Linear | 7. No; if $x = 3$, then $y = -2$. | |
| 8. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ | 9. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ | | |
| 10. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ | | | |
| 11. $(2, -1, 3)$ | 12. None | 13. $(2, 1, 0, 1)$ | 14. $(0, 0, 0, 0)$ |

We can also enumerate the items using an even-only or odd only counter.

Answers to Even-Numbered Exercises

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|---|--|--------------------------------------|--------------------|
| 2. Not | 4. Linear | 6. Not | 8. Quadratic |
| 10. Not | 12. Linear | 14. No; if $x = 3$, then $y = -2$. | |
| 16. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ | 18. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ | | |
| 20. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ | | | |
| 22. $(2, -1, 3)$ | 24. None | 26. $(2, 1, 0, 1)$ | 28. $(0, 0, 0, 0)$ |

Answers to Odd-Numbered Exercises

- | | | | |
|---|--|--------------------------------------|--------------------|
| 1. Not | 3. Linear | 5. Not | 7. Quadratic |
| 9. Not | 11. Linear | 13. No; if $x = 3$, then $y = -2$. | |
| 15. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ | 17. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ | | |
| 19. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ | | | |
| 21. $(2, -1, 3)$ | 23. None | 25. $(2, 1, 0, 1)$ | 27. $(0, 0, 0, 0)$ |

Sometimes we want to create sublists which are enumerated using an alpha counter.

1. Which of the following numbers is the solution of the equation $x^3 = 7$:

(a) 1 (b) 2 (c) 3 (d) 4

2. The value of $\log_2 8$ is:

(a) 1 (b) -1 (c) 3 (d) -3

Answers to All Exercises

- | | | |
|---|--------------------|---|
| 1. Not | 2. Linear | 33. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ |
| 3. Not | 4. Quadratic | 34. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ |
| 5. Not | 6. Linear | 35. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ |
| 7. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ | | 36. $(2, -1, 3)$ 37. None |
| 8. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ | | 38. $(2, 1, 0, 1)$ 39. $(0, 0, 0, 0)$ |
| 9. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ | | |
| 10. $(2, -1, 3)$ | 11. None | |
| 12. $(2, 1, 0, 1)$ | 13. $(0, 0, 0, 0)$ | |
| 14. Not | 15. Linear | |
| 16. Not | 17. Quadratic | |
| 18. Not | 19. Linear | |
| 20. $(x_1, x_2) = (2\frac{1}{3}t, t)$ or $(s, 3s - 6)$ | | |
| 21. $(x_1, x_2, x_3) = (2\frac{5}{2}s - 3t, s, t)$ | | |
| 22. $(x_1, x_2, x_3, x_4) = (\frac{1}{4}\frac{5}{4}s\frac{3}{4}t - u, s, t, u)$ or $(s, t, u, \frac{1}{4} - s\frac{5}{4}t\frac{3}{4}u)$ | | |
| 23. $(2, -1, 3)$ | 24. None | |
| 25. $(2, 1, 0, 1)$ | 26. $(0, 0, 0, 0)$ | |
| 27. Not | 28. Linear | |
| 29. Not | 30. Quadratic | |
| 31. Not | 32. Linear | |

Multiple Choice

- Which of the following numbers is the solution of the equation $x^3 = 7$:
(a) 1 (b) 2 (c) 3 (d) 4
- The value of $\log_2 8$ is:
(a) 1 (b) -1 (c) 3 (d) -3
- Which of the following numbers is the solution of the equation $x^3 = 7$:
(a) 1 (b) 2 (c) 3 (d) 4
- The value of $\log_2 8$ is:
(a) 1 (b) -1 (c) 3 (d) -3
- Which of the following numbers is the solution of the equation $x^3 = 7$:
(a) 1 (b) 2 (c) 3 (d) 4
- The value of $\log_2 8$ is:
(a) 1 (b) -1 (c) 3 (d) -3