

Mathlete Training Centre
AMC 2022 12A Solutions

1. Answer: $\frac{109}{33}$
$$3 + \frac{1}{3 + \frac{1}{3 + \frac{1}{3}}} = 3 + \frac{1}{3 + \frac{1}{3 + \frac{1}{3}}} = 3 + \frac{3}{3 + \frac{10}{3}} = 3 + \frac{1}{\frac{33}{10}} = 3 + \frac{10}{33} = \frac{109}{33}$$
2. Answer: 5
3. Answer: B
4. Answer: 6
5. Answer: 841
6. Answer: 36
7. Answer: 540
8. Answer: $\sqrt{10}$
9. Answer: 7
10. Answer: 144
11. Answer: 81
12. Answer: $\frac{1}{3}$
13. Answer: 13
14. Answer: 2
15. Answer: 30
16. Answer: 18
17. Answer: -4
18. Answer: 359
19. Answer: 8178
20. Answer: $\frac{1}{3}$
21. Answer: $x^6 + x^3 + 1$
22. Answer: 4.5
23. Answer: 8
24. Answer: 1296
25. Answer: 17