

PURE MATHEMATICS AUDIT: ANSWERS

1. $n = \frac{1}{2}$
 2. $a = 3, b = -12$
 3. None
 4. $p = 6$
 5. D
 6. $a = 0, b = 1, c = 2$
 7. B
 8. E
 9. Yes; 10
 10. 460
 11. $a = 3, b = 2; a = 1, b = 2; a = 2, b = 1; a = 2, b = \frac{1}{2}$
 12. None
 13. E
 14. $a = 2, b = 0$
 15. 4
 16. $p = 4, q = 1, r = \frac{1}{5}$ (other equivalent answers possible)
 17. 1
 18. $y = ke^{4x}$ (k constant)
 19. A: *true* B: *false* C: *true*
 20. $\frac{1}{x}$
 21. E
 22. A: *false* B: *false* C: *true* D: *false*
 23. A: *true* (in fact, there are three) B: *true*
 24. $a = +2, b = -1$
 25. $p = -44, q = -5$
 26. $p = 32, q = 1$ (or other equivalent solutions)
 27. $p = 4, q = 7$ (or equivalent)
 28. $p = 2, q = 40$ or $p = -2, q = 40$
 29. $q = 10$
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