Mathematical Evolution

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Across
1. Long tales
6. Certain dog food
10. Bivalent logic value
14. About
15. Something on a foot or ear
16. Curve with equation \( r = a \sin(n\theta) \)
17. A grade school start to a mathematical life
19. Pitcher
20. _____ 5 (when 8 becomes 3)
21. Dole
23. Fruit part
24. Miami’s county
27. As _____ Methuselah
31. Oink joint
32. It had to _____ (not you)
33. UFO pilots
34. _____ Temple Bell, 1931–1932
   MAA president
35. Units of visible light
36. An undergraduate study of transformations
40. Next to last, briefly
41. Thug
42. A lack of societal standards
43. Shrek, for one
44. MS-_____
47. 12
48. Computer rule GRP
49. Only
50. Forty winks
52. Coins, not notes
54. An invariant under isometries of the plane
57. A graduate study of differential forms
60. Type of space or hypothesis
61. Tops
62. Newspapers, for one
63. Spreads hay
64. Statistician’s forte
65. Hammer parts

Down
1. Rogues
2. Dry
3. Graphically; mesh-like
4. Misbehave
5. Satirist Mort
6. Often one
7. Sometimes odd
8. Rarely even
9. Never many
10. Graph theory branch?
11. Vector type
12. Employ
13. Suffix with profit
14. Not too much nor too little
15. Arab leader
16. Curve with equation \( r = a \sin(n\theta) \)
17. A grade school start to a mathematical life
18. Sometimes odd
19. Pitcher
20. _____ 5 (when 8 becomes 3)
21. Dole
23. Fruit part
24. Miami’s county
27. As _____ Methuselah
31. Oink joint
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The clues begin on the left, on page 444. The Solution is on page 479.

Extra copies of the puzzle can be found at the Monthly’s website, http://www.maa.org/amm_supplements.