Pi-Rates Spring 2025

Competition Answers

- 0.3
- 1.9
- 2. 6 un²
- $3. x^3 + 5x^2 41x 45$
- 4. 135 liters
- 5. $16 + x^{11}$
- 6. 115°
- 7. Median = 5
- 8. 2/3 or 0.666
- 9. 21/29 or 0.724
- 10. 5/2 or 2.5 seconds
- 11. -60
- 12. 7 coins
- 13. b = 12
- 14. -3
- 15. Mode = 3
- 16. 78.5 or 157/2
- 17. x-int = -6/5 or -1.2
- 18. Smallest integer = 94
- 19. n = 4
- 20. x-intercept = 4 or (4,0)
- 21. Sum = 42
- 22. 0
- 23. x = 6
- 24. 44
- 25. 291 miles
- 26. 97%
- 27. 160°

- 28. 15/4 or 3.75
- 29. -4
- 30. 40 un²
- 31. $6x^2 7x 24$
- 32. 3 discontinuities
- 33. 300
- 34. $6xy^2$
- 35. Mean = 31
- 36. 40.82 or 2041/50 un
- 37. y-intercept = 2 or (0,2)
- 38. (5,0) or x = 5
- 39. 294 un²
- 40. x = -4, x = -2, x = 0 or (-4,0),(-2,0),(0,0)
- 41. x = 81
- 42. 108π
- 43. r > 30
- 44. 1980 un³
- 45. 300 un²
- 46. 7/25 or 0.28
- 47. (2/3,5/3) or (0.666, 1.666) or x = 2/3, y = 5/3
- 48. 2 hours
- 49. 66°
- 50. 36π
- 51. Positive infinity or ∞