

The Weekly Rigor

No. 320

“A mathematician is a machine for turning coffee into theorems.”

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40 Problems in Factoring by the Difference of Squares (Part 2)

17. $64x^2 - y^2$.

18. $121x^2 - y^2$.

19. $x^2 - 4y^2$.

20. $x^2 - 36y^2$.

21. $x^2 - 121y^2$.

22. $9x^2 - 16y^2$.

23. $49x^2 - 25y^2$.

24. $81x^2 - 64y^2$.

25. $(x + y)^2 - 4$.

26. $(x - y)^2 - 81$.

27. $9 - (x + y)^2$.

28. $64 - (x - y)^2$.

29. $4(x + y)^2 - 16$.

30. $81(x - y)^2 - 1$.

31. $(x + 3)^2 - (x + 5)^2$.

32. $(x - 1)^2 - (x + 2)^2$.

“Only he who never plays, never loses.”

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