Tony:

Here are my comments (or votes). For many of the physics equations I put "no comment" since I don't understand enough to say anything sensible. I put "Yes!" for the ones I felt most strongly about.

1 (primes). Yes (or should the equations be restricted to geometry and physics ?)

2 (sphere volume). No

3. Yes! (Note: This braid relation is due to Artin, 1925. As the defining equation for the fundamental group of a trefoil complement, it is due to Wirtinger 1905)

4 (reciprocity). Yes

5 (completing square). No

6 (F=ma). No

7 (gravity). Yes

8 (Pythagoras). Yes!

9 (hexagon). No

10 ($e^{i\pi}$). No

11. Schrödinger). Yes

12. No. This seems too complicated to me. But Maxwell's equations surely belong. Perhaps Einstein's formulation also belongs:

$$F^{\alpha\beta}_{\ ;\beta} \;=\; F_{\alpha\beta;\gamma} + F_{\beta\gamma;\alpha} + F_{\gamma\alpha;\beta} \;=\; 0$$

13 ($E = mc^2$). maybe

14. Yes! But maybe the right side should be $\frac{8\pi G}{c^4} T_{\mu\nu}$?

15. maybe at the end??

16 (Heisenberg). Yes!

17 (Dynkin). No

18. (H-C). No

19 (Fibonacci). Fibonacci belongs in some form; but this seems too crowded.

20 (Wilson). Not without a lot of explanation.

21. Maybe. But the figure should show a non-equilateral triangle with the angles marked. The ghost full great circles are not necessary. (I could try to make a figure if necessary.)

22 (Stokes). Yes

23 (genus 2). No

24 (twisted Dirac). maybe. But the ch should be in roman type, and I don't like the cup symbol. Maybe just a space or · or wedge symbol?

$$\cdots \;=\; \int_{M^{4k}} \widehat{A}(M^{4k}) \cdot \mathrm{ch}(E)$$

25 (gen. G-B). Perhaps.

26 (G-B). Yes!

27 (C-S). Yes. But the CS should be in roman type. I don't know what k is.

28 (Witten). no comment

29 (refraction). Maybe, if the figure were labeled.

30, 31, 32. no comment.

33 (Poincaré). No. (This is very misleading. The importance of Poincaré's paper is his discovery that celestial mechanics can be chaotic, so that the [planets] could conceivably "cross their prescribed limits" given enough time.)

34 Y-M). Some form of this certainly belongs. Doesn't the equation $F = dA + A \wedge A$ for the curvature of a connection deserve a line of its own?

35 (Y-M). no comment.

36 (Hodge). Yes. But perhaps the first equal sign should be a $\cong$. Would δ in place of $*d$ be more familiar?

37, 38. no comment

39 (Cauchy). Yes

40 (Hodge). No

41 (dilog). No. Would need too much explanation.

42 (N-S). Yes, if there is some explanation.

43. 44. no comment

45 (renorm.) no comment

46 ("no comment"). No, as is.

47(entropy) Yes (But without the k_B this could described both as thermodynamic entropy and Shannon's information theoretic entropy)

48 (CKM). no comment

49 (exact sequence) No.

50 (Ricci flow) maybe

51 (App. fractal) maybe. What does it mean?

52 (gasket) No.

53 (Pascale, Fibonacci) No.

54 (heat kernel). no comment

55 (A-B). no comment

56 (cubic). Yes!

57 (R-R-H). maybe. I would write the right side as $\int_X \mathrm{ch}(E) \cdot \mathrm{Todd}(X)$

58 (solids and χ). Not together.

59 (Lorenz). Yes

60 (BH entropy) no comment

61 (Mandelbrot) Yes if this resolution can be achieved

62 (sonnet) No.

63 (Eratos...) Yes!

64 (prime number th.) Yes

65 (superG). no comment

66 (Fourier transform). Yes!

67 (Euler). Yes

68 (Kepler). Yes