

Final exam review: errata (as of 6/14/14)

Students, thanks for your patience as the faculty corrects any errors found in the 20-page review packet. We will keep a cumulative list of corrections on this sheet.

Problem corrections

7. Items **a-e** were not intended to be five separate questions. Write a single equation that fits all five of the conditions.

13a. The first sentence (blocked by the graphic) is: "Write a series that represents the total area after infinitely many iterations."

14c. The table got split across a page break. Here is what it should look like.

n	$f(n)$	Σ
0	1	
1	3	
2	6	
3	10	
4	15	
5	21	
6	28	

Answer corrections

4g. The last two lines should be

$$(27x^3 + 1) + (27x^2 + 9x) = (3x + 1)((3x)^2 - 3x + 1) + 9x(3x + 1) = \\ (3x + 1)(9x^2 - 3x + 1) + 9x(3x + 1) = (3x + 1)(9x^2 + 6x + 1) = (3x + 1)(3x + 1)^2 = (3x + 1)^3$$

11. In several places, the exponent of $3/2$ should be $(n + 1)$ not n .

14b. change 2 to 4

15b. variance = 5.275, standard deviation = 2.297

30. Sine function should be $f(x) = -4 + 5 \sin \frac{2}{3} \left(x + \frac{\pi}{4} \right)$

38. $\arg(zw) = 53.13 + 63.43 = 116.56^\circ$

45. Answer printed as **45b** is actually for **45c**. Answer to **45b**: exponential decay because $r = 1/3$ so $|r| < 1$.