

FNMT 017 HOMEWORK 15 NAME: _____

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[Run: 03/27/2017 at 12:29 Seed: 6477. Order of Checkable Items: List.]

Response Grid (Check the appropriate boxes thus:)

Question	a	b	c	d	e
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

After having read the chapter *pencil in hand* and done this HOMEWORK :

i. What's *the* most important *idea* in the CHAPTER? Be *brief* and *specific*.

ii. What from this CHAPTER will you need to work on for the EXAM?

a.

b.

Hw 15-1. Identify $(+13 + h)^2$

- a. $+169 + h^2$ b. $+169 + 13h + h^2$ c. $+169 + 26h + h^2$ d. $+13 + h + h^2$
 e. None of the previous choices

Hw 15-2. Identify $(-15 + h)^2$

- a. $-225 + 15h + h^2$ b. $+225 + 15h + h^2$ c. $-225 + 30h + h^2$ d. $+225 - 30h + h^2$
 e. None of the previous choices

Hw 15-3. Identify the *constant approximation* of $(+11 + h)^2$

- a. $100 + [\dots]$ b. $11 + [\dots]$ c. $22 + [\dots]$ d. $121 + [\dots]$
 e. None of the previous choices

Hw 15-4. Identify the *affine approximation* of $(+12 + h)^2$

- a. $+12 + h + [\dots]$ b. $+144 + 12h + [\dots]$ c. $+144 + 24h + [\dots]$ d. $+144 + h + [\dots]$
 e. None of the previous choices

Hw 15-5. Use the *addition formula* to compute 100.01^2 exactly

- a. 10,001 b. 10,002.0001 c. 10,002.01 d. 10,000.01
 e. None of the previous choices

Hw 15-6. Use the *addition formula* to compute 99.99^2 exactly

- a. 9,997.9999 b. 9,999.01 c. 9,998.0001 d. 9,999.0001
 e. None of the previous choices

Hw 15-7. Identify $(+7 + h)^3$

- a. $343 + h^3$
 b. $343 + 21h + h^3$
 c. $343 + 147h + h^3$
 d. $343 + 147h + 21h^2 + h^3$
 e. None of the previous choices

Hw 15-8. Identify $(-8 + h)^3$

- a. $+512 + 192h + 24h^2 + h^3$ b. $+512 - 192h + 24h^2 + h^3$
 c. $-512 - 1292h - 24h^2 + h^3$ d. $+512 - 192 + 24h^2 - h^3$
 e. None of the previous choices

Hw 15-9. Identify the *constant approximation* of $(-11 + h)^3$

- a.** $1331 + (\dots)$ **b.** $-1331 + (\dots)$ **c.** $+121 + (\dots)$ **d.** $-121 + h^3 + (\dots)$
e. None of the previous choices

Hw 15-10. Identify the *affine approximation* of $(+14 + h)^3$

- a.** $2744 + [\dots]$ **b.** $-2744 + [\dots]$ **c.** $+2744 - 588h + [\dots]$ **d.** $-2744 + 588h + [\dots]$
e. None of the previous choices

Hw 15-11. Identify the *quadratic approximation* of $(-13 + h)^3$

- a.** $+2197 + 507h - 39h^2 + [\dots]$ **b.** $-2197 - 507h - 39h^2 + [\dots]$
c. $-2197 + 507h - 39h^2 + [\dots]$ **d.** $-2197 - 507h + 39h^2 + [\dots]$
e. None of the previous choices

Hw 15-12. Use the *addition formula* to compute 100.01^3 exactly

- a.** 1,000,300.0001001 **b.** 1,000,300.000301 **c.** 1,000,300.030001
d. 1,000,000.000001
e. None of the previous choices

Hw 15-13. Use the *addition formula* to compute 99.99^3 exactly

- a.** 999999.999999 **b.** 999100.001999 **c.** 999099.099001 **d.** 999700.029999
e. None of the previous choices

Hw 15-14. Identify the *affine approximation* of $(+22 + h)^6$

- a.** $(+22)^6 + 6(+22)^5 + (\dots)$ **b.** $(+22)^6 + (+22)^5h + (\dots)$
c. $(+22)^6 + 6(+22)^5h + (\dots)$ **d.** $+6(+22)^5h + (\dots)$
e. None of the previous choices

Hw 15-15. Identify the *constant approximation* of $(-16 + h)^7$

- a.** $(+16)^{+7} + [\dots]$ **b.** $+16 \times 10^{-7} + [\dots]$
c. $(-16)^{-7} + [\dots]$ **d.** $-16 \times 10^{+7} + [\dots]$
e. None of the previous choices

Hw 15-16. Identify the *quadratic approximation* of $(-18 + h)^9$

- a.** $(-18)^9 + 9(-18)^8 + 8(-18)^7 + (\dots)$ **b.** $(-18)^9 + (-18)^8h^2 + (\dots)$
c. $(-18)^9 + 9(-18)^8h + (\dots)$ **d.** $(-18)^9 + 9(-18)^8h + 36(-18)^7h^2 + (\dots)$
e. None of the previous choices