	Матн	017	HOM	$\pm \mathrm{WC}$)RK	17	NAME:
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Response Grid (Check the appropriate boxes thus: X)

Question	a	b	c	d	е
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					

The idea in this HOMEWORK is

$$Hw$$
 17-1. Identify $(+13+h)^2$

Your Work:

i. Explain your reasoning in getting your result.

- ii. Circle which of the following choices matches exactly what you got above.
 - **a.** $+169 + h^2$
- **b.** $+169 + 13h + h^2$ **c.** $+169 + 26h + h^2$
- **d.** $+13 + h + h^2$

- e. None of the preceding
- iii. Check on the front page the box that corresponds to your choice thus \(\mathbb{X}\).

$$Hw$$
 17-2. dentify $(-15+h)^2$

Your Work:

i. Explain your reasoning in getting your result.

- ii. Circle which of the following choices matches exactly what you got above.
 - **a.** $-225 + 15h + h^2$
- **b.** $+225 + 15h + h^2$
- **c.** $-225 + 30h + h^2$ **d.** $+225 30h + h^2$

- e. None of the preceding
- iii. Check on the front page the box that corresponds to your choice thus X...

Hw 17-3. Identify the constant approximation of $(+11+h)^2$
Your Work:
i. Explain your reasoning in getting your result.
ii. Circle which of the following choices matches exactly what you got above.
a. $100 + []$ b. $11 + []$ c. $22 + []$ d. $121 + []$ e. None of the preceding
iii. Check on the front page the box that corresponds to your choice thus X .
Hw 17-4. Identify the affine approximation of $(+12+h)^2$
Your Work:
i. Explain your reasoning in getting your result.
ii. Circle which of the following choices matches exactly what you got above.
11. Choice which of the following choices matches exactly what you got above.

- **a.** +12 + h + [...]
- **b.** +144 + 12h + [...]
- $\mathbf{c.} + 144 + 24h + [...]$
- **d.** +144 + h + [...]

- $\mathbf{e.}\,$ None of the preceding
- iii. Check on the front page the box that corresponds to your choice thus X.

 $_{Hw}$ 17-5. Use the addition formula to compute 100.01^2 exactly

Your Work:
i. Explain your reasoning in getting your result.
I Explain your reasoning in getting your result.
: Cincle which of the following choices matches are otherwhat you got above
ii. Circle which of the following choices matches exactly what you got above.
a. 10,001 b. 10,002.0001 c. 10,002.01 d. 10,000.01 e. None of the preceding
iii. Check on the front page the box that corresponds to your choice thus X
Hw 17-6. Use the addition formula to compute 99.99^2 exactly
Your Work:
i. Explain your reasoning in getting your result.
ii. Circle which of the following choices matches exactly what you got above.
a. 9, 997.9999 b. 9, 999.01 c. 9, 998.0001 d. 9, 999.0001
e. None of the preceding
iii. Check on the front page the box that corresponds to your choice thus X

$$Hw$$
 17-7. Identify $(+7+h)^3$

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

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 preceding

iii. Check on the front page the box that corresponds to your choice thus X...

$$Hw$$
 17-8. Identify $(-8+h)^3$

Your Work:

i. Explain your reasoning in getting your result.

1. Explain your reasoning in getting your result.	

ii. Circle which of the following choices matches exactly what you got above.

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 preceding

| iii. Check on the front page the box that corresponds to your choice thus X...

Hw 17-9. Identify the constant approximation of $(-11+h)^3$

Your Work:
i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

a.
$$1331 + (...)$$
 b. $-1331 + (...)$

$$\mathbf{c.} + 121 + (...)$$

d.
$$-121 + h^3 + (...)$$

e. None of the preceding

iii. Check on the front page the box that corresponds to your choice thus \boxtimes ..

Hw 17-10. Identify the affine approximation of $(+14+h)^3$

Your	Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

b.
$$-2744 + [...]$$

$$\mathbf{c.} + 2744 - 588h + [...]$$

$$\mathbf{d.} -2744 + 588h + [...]$$

e. None of the preceding

iii. Check on the front page the box that corresponds to your choice thus X...

Hw 17-11. Identify the quadratic approximation of $(-13 + h)^3$

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

a.
$$+2197 + 507h - 39h^2 + [...]$$

b.
$$-2197 - 507h - 39h^2 + [...]$$

a.
$$+2197 + 507h - 39h^2 + [...]$$
 b. $-2197 - 507h - 39h^2 + [...]$ **c.** $-2197 + 507h - 39h^2 + [...]$ **d.** $-2197 - 507h + 39h^2 + [...]$

d.
$$-2197 - 507h + 39h^2 + [...]$$

e. None of the preceding

iii. Check on the front page the box that corresponds to your choice thus X...

MATH **017** HOMEWORK 17 Answers

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Answer Key:

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