

MATH 017 HOMEWORK 18 NAME: \_\_\_\_\_

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[ Run: 02/04/2015 at 18:44 Seed: 6477. Order of Checkable Items: List.]

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**Response Grid** (Check the appropriate boxes thus:  )

Question	a	b	c	d	e
1					
2					
3					
4					
5					

The idea in this HOMEWORK is



*Hw 18-1.* Identify the *quotient* of  $\frac{-6x^3 - 17x^2 + 23x + 6}{-3x + 2}$

**Your Work:**

i. Explain your reasoning in getting your result.

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

- a. 12      b.  $+2x^2 + 7x - 3$       c.  $-2x^2 + 4x - 5$       d.  $+2x^2 - 4x + 4$   
 e. None of the preceding

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

*Hw 18-2.* Identify the *remainder* of  $\frac{-6x^3 + 19x^2 - 18x - 3}{2x - 5}$

**Your Work:**

i. Explain your reasoning in getting your result.

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

- a.  $-4x + 4$       b.  $+2x + 7$       c.  $+17$       d.  $-23$   
 e. None of the preceding

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

*Hw 18-3.* Identify the *remainder* of  $\frac{10x^5 - 25x^3 - 8x^2 + 13}{5x^3 - 4}$

**Your Work:**

i. Explain your reasoning in getting your result.


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

- a.  $+2x^2 - 5$       b.  $-7$       c.  $-2x - 3$       d.  $+2$   
 e. None of the preceding

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

*Hw 18-4.* Approximate  $\frac{-6x^4 - 2x^3 + 11x^2 - 16x + 18}{-3x^2 + 2x - 4}$  with a *quadratic* polynomial

**Your Work:**

i. Explain your reasoning in getting your result.


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

- a.  $-2x^2 - 2x + 3$       b.  $+2x^2 + 2x - 5$       c.  $-2x^2 + 4x - 3$       d.  $+2x^2 - 2x + 5$   
e. None of the preceding

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

*Hw 18-5. Approximate  $\frac{6x^3 + 18x^2 - 15x + 2}{-3x^2 - 4}$  with an affine polynomial*

**Your Work:**

i. Explain your reasoning in getting your result.

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

- a.  $-23x - 22$       b.  $-2x^2 + 3x - 5$       c.  $+2x^2 - 3$       d.  $-2x - 6$   
e. None of the preceding

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



**MATH 017 HOMEWORK 18 Answers**

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**Answer Key:**

Question	a	b	c	d	e
1					
2					
3					
4					
5					