

MATH 143 005 Intro Quiz – Spring 2007 – Name: _____1

The assignments and syllabus will be at links from the webpage:

<http://math.boisestate.edu/~kerr>

Where it says **Course Webpages**, click on **MATH 143** in the Spring-2007 line. This will bring you to the *Assignment Page* where assignments and announcements will appear. You'll resort to this page constantly and frequently.

Find the course web pages and answer the following:

- 1 The dates for Tests #1 and #3: _____

- 2 When is the last day to drop a class? _____

- 3 When is the final exam? _____

- 4 Where is the instructor's office? _____

- 5 What is the absolute minimum number of times one should check the assignment webpage in a generic week this semester? _____

- 6 Suppose a student earned these scaled percentages on homework and exams:

Home Work	Test #1	Test #2	Test #3	Final Exam
87	80	79	77	81

This student's final letter grade will be _____.

7 In MATH 160 and other courses you will encounter the *when bar*, which is used to indicate substitutions in formulas:

Let $W = 5x^2 - 3x + 7$ and then

$$W \Big|_{x=2} = (5x^2 - 3x + 7) \Big|_{x=2} = 5(2)^2 - 3(2) + 7 = 20 - 6 + 7 = 21,$$

where the when bar is the vertical line. The symbol group

$$W \Big|_{x=2}$$

(W when x equals 2) says to substitute 2 in for the variable x in the expression $W = 5x^2 - 3x + 7$.

Here's two more examples:

$$W \Big|_{x=-2} = 33 \quad \text{and} \quad W \Big|_{x=(a+2)} = 5a^2 + 17a + 21$$

And here are questions for *you* to interpret and simplify:

Keep $W = 5x^2 - 3x + 7$ and let $X = 3 - 4x - 3x^2$.

(a) $X \Big|_{x=0} = \underline{\hspace{2cm}}$

(c) $W \Big|_{x=(a-2)} = \underline{\hspace{2cm}}$

(b) $X \Big|_{x=3} = \underline{\hspace{2cm}}$

(d) $X \Big|_{x=(a-2)} = \underline{\hspace{2cm}}$

8 The *double-decker when bar* is actually more common. We can explain it by writing

$$W \Big|_{x=a}^{x=b} = W \Big|_{x=b} - W \Big|_{x=a}$$

That is, we write down the two substitutions and do “upper minus lower”:

$$W \Big|_{x=3}^{x=5} = W \Big|_{x=5} - W \Big|_{x=3} = 117 - 43 = 74.$$

(a) $X \Big|_{x=3}^{x=5} = \underline{\hspace{2cm}}$

(b) $X \Big|_{x=(a+3)}^{x=(a-3)} = \underline{\hspace{2cm}}$