

MATH 100

PRACTICE

FINAL EXAM

Lecture Version

Name: _____

ID Number: _____

Instructor: _____

Section: _____

Do not open this booklet until told to do so!

On the separate answer sheet, fill in your name and identification number and code the appropriate spaces with a No. 2 pencil. Use the spaces marked “Year” under Birth Date to code the version of the exam you are taking.

The exam has 50 multiple choice questions. Select the one best answer for each problem. Use a No. 2 pencil to mark your answers on the answer sheet. Be sure to clearly mark your answer with a heavy mark. Should you change an answer, be sure to erase your original answer completely.

The test booklet has a limited amount of space with each problem. If the space is not sufficient to show your work, use the back of the previous page. Label your work. Mark your answer in the exam booklet and on the answer sheet. Answer all questions. There is no penalty for guessing.

Good Luck!

5. Find the following sum. 5. _____
$$7(3x^2 + 2x - 5) + 2(-x^2 + 3)$$

- a) $20x^2 + 14x - 32$ b) $19x^2 + 2x - 2$
c) $28x^2 + 14x - 28$ d) $19x^2 + 14x - 29$

6. Find the following product. 6. _____
$$(1 - 3x)(x^2 + 2x - 5)$$

- a) $-3x^3 - 5x^2 + 17x - 5$ b) $x^2 - x - 4$
c) $-3x^3 + 7x^2 + 13x - 5$ d) $-7x^2 + 17x - 5$

7. Factor out the greatest common factor from the following polynomial. 7. _____
$$3a^7b^3 - 21a^4b^3$$

- a) $a^4b^3(3a^3 - 21)$ b) $3a^4b^3(a^3 - 7)$
c) $a^4b^3(3a^3b - 21ab)$ d) $3a^4b^3(a^3b - 7ab)$

8. Factor the following polynomial by grouping. 8. _____
$$15ab - 6b + 10a - 4$$

- a) $(3b + 2)(5a - 2)$ b) $(3b - 2)(5a + 2)$
c) $(3b + 2)(5a + 2)$ d) $(3b - 2)(5a - 2)$

9. Factor the following trinomial. 9. _____
$$6x^2 + 11x - 10$$

- a) $(3x - 2)(2x - 5)$ b) $(3x + 2)(2x - 5)$
c) $(3x - 2)(2x + 5)$ d) $(x + 6)(11x - 10)$

