MATH 012 QUIZ 3 NAME_____

Professor: A. Wimbish

INSTRUCTIONS

- The quiz is worth 100 points. There are 10 problems (each worth 10 points).
- This quiz is *open book* and *open notes*. This means that you may refer to your textbook, notes, and online classroom materials, but *you may not consult anyone*. You may take as much time as you wish, before Sunday 11:59PM.
- You must show your work to receive full credit. If you do not show your work, you may earn only partial or no credit at the discretion of the professor. Please type your work in your copy of the quiz, or if you prefer, create a document containing your work. Scanned work is acceptable also. Be sure to include your name in the document.
- Consult the Additional Information portion of the online Syllabus for options regarding the submission of your quiz. If you have any questions, please contact me by e-mail (awimbish@faculty.umuc.edu).

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Factor the polynomial completely. If the polynomial cannot be factored, write "prime."

1) $x^2 + 6x + 8$ 1) _____

2) $x^2 + 144$ 2) _____

3) $x^2 + 3xy - 10y^2$ 3) _____

4) $5t^2 - t - 120$ 4) _____

5) $xy^2 + 2y^2 - 9x - 18$ 5) _____

6) $3x^3 - 33x^2 + 54x$ 6) _____

7) $4x^3 - 108$ 7) _____

8) $x^2 - x - 35$ 8) _____

Solve the equation.

9) $x^2 + 7x = 44$ 9) _____

10) $t^2 + 4t - 32 = 0$ 10) _____