Math 118 Fall 2007
Finite Mathematics

Practice Pretest

Calculators are allowed.

1. Evaluate the expression:

$$3(-1)(6-10-2(10))$$

2. Evaluate the expression:

$$|-(-75-121)|$$

3. Evaluate the expression:

$$(-3)^4$$

4. Evaluate the expression:

$$-4^2$$

5. Perform the following operations and reduce your answer:

$$\frac{9}{6}+\frac{5}{8}$$

6. Perform the following operations and reduce your answer:

$$\frac{10}{8}+\frac{9}{11}+4$$

7. Perform the following operations and reduce your answer:

$$\left(10 \div \frac{4}{5}\right)-\frac{4}{5}$$

8. Evaluate the expression:

$$\frac{1}{9}(9+7/5^2)$$

9. Solve for x:

$$9x+6=2x+3$$

10. Solve for x:

$$6(x+9)+4=-4(x-8)-7$$

11. Solve for y:

$$-6y+5(-3y-9)=9+8(-6-y)$$

12. Solve the following system of equations:

$$\begin{cases} x+y=-4 \\ -x+3y=5 \end{cases}$$

13. Solve the following system of equations:

$$\begin{cases} 3x+y=8 \\ -6x-2y=-16 \end{cases}$$

14. Find the slope, x-intercept, and y-intercept for the line

$$8y-9x-9=0$$

15. Graph the following line:

$$3y+4x=9$$

16. A TV set was originally priced at \$250. The price was then reduced to 55% of the original. What is the new price of the TV set?

17. \$140 were allocated for competitions from the Math Lab budget of \$510. What is the percentage, to the nearest percent, of the budget that is allocated for competitions?

18. After a reduction of 65% , the price of a computer monitor is \$200. What was the original price?

19. An executive in an engineering firm earns a monthly salary plus a Christmas bonus of 6600 dollars. If she earns a total of 94,000 dollars per year, what is her monthly salary?

20. The admission fee at an amusement park is 1.5 dollars for children and 4 dollars for adults. On a certain day, 268 people entered the park, and the admission fees collected totaled 752 dollars. How many children and how many adults were admitted?