BRONX COMMUNITY COLLEGE of the City University of New York DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

NAME: Prof. Antonakos	Test 2 Sample 9/22/14 MTH 01 D34	
Each questions is 5 points. SHOW ALL WORK to receive full credit. Simplify all answers: reduce all fractions and convert improper fractions to mixed numbers. Include any units.		
The actual test will be o	n Wednesday $10/1/14$	
$1. \frac{3}{7} + \frac{5}{7} + \frac{6}{7} =$	2 . $-\frac{2}{8} + \frac{7}{8} - \frac{5}{8} =$	
3 . $21\frac{5}{12} + 4\frac{1}{4} =$	4. $15\frac{3}{4} - (-2\frac{3}{4}) =$	
5. $22\frac{2}{11} - 3\frac{8}{11} =$	6. $\frac{5}{6} + \frac{2}{9} =$	

7. $\frac{10}{27} - \frac{5}{18} =$	 8. Use the prime factorization of 550 and 990 to find: (a) GCF(550, 990)= (b) LCM(550, 990)=
9. $2 \times \frac{2}{27} \times 1\frac{1}{10} =$	10. $\frac{6}{7} \div 2\frac{1}{3} =$
11. $\frac{4}{5} + \frac{1}{6} \times \frac{4}{5}$	12. $(1\frac{2}{3})^2 + (\frac{7}{9})^0$

	by $8\frac{1}{4}$ feet wide. If carpet costs \$4 per square foot, how much will it cost to carpet the room?
15. A rectangular field is 15 ³ / ₈ yards by 12 ¹ / ₈ yards. Fencing costs \$6 per yard. How much would it cost to enclose the field in a fence?	16. Put the fractions in increasing order: $\frac{3}{5}, \frac{3}{4}, \frac{5}{8}$

17. Find the area of a right triangle with legs $2\frac{1}{2}''$ and $6\frac{2}{5}''$.	$18. \ \sqrt{16^2} - \frac{100}{5} =$
19. Find the hypotenuse of a right triangle with legs 7cm and 4cm.	20. Find the area of the shape below. Assume all angles are right angles and measurements are in feet.