

## MAC 1105 EXAM REVIEW

1. Multiply 2 rational expressions. Pg 86: 17,19
2. Multiply 2 complex numbers. Pg 142: 11,13
3. Solve a quadratic equation. Pg 160: 5,7,39, 85,95
4. Solve an equation with a square root. Pg 178: 11
5. Solve by using an appropriate substitution. Pg 179: 45
6. Solve a quadratic inequality. Pg 420: 3,5,9
7. Solve an absolute value equality. Pg 179:65
8. Solve an absolute value inequality. Pg 196: 61,63,71,73
9. Find distance between 2 points. Pg 319: 3,7
10. Find the midpoint between 2 points. Pg 319: 19-23 odd
11. Determine if a function is even or odd. Pg. 239: 17-25 odd
12. Determine the equation of a circle given the center and radius.  
Pg 319: 35,37
13. Given a function  $f(x)$ , find the value of  $f(x)$  where  $c$  is a real number.  
Pg 224: 29a
14. Write an equation for a function given shifts and reflections.  
Pg 283: 55,59,77,89
15. Given  $f(x)$  and  $g(x)$  find  $f \circ g$  Pg 298: 53,55
16. Find the inverse of a function Pg 309: 49a
17. Find the vertex for a quadratic function. Pg 343: 9-15 odd
18. Find the minimum or maximum value for a quadratic function. 343: 38,41
19. Evaluate a log expression. Pg 466: 23. 25

20. Solve an exponential equation where bases are same. Pg 489: 5,7
21. Solve a compound interest problem. Pg 452: 53b
22. Write a log in exponential form. Pg 465: 1,3,7
23. Recognize the graph when  $f(x)$  is a logarithmic function.  
Pg 459: figure 4.7, Pg 461: figure 4.11
24. Write in condensed form an expanded logarithm. Pg 477: 69,61
25. Use change of base formula to calculate a log expression to 2 decimal places.  
Pg 477: 71
26. Solve a exponential equation where bases not the same Pg 490: 27,37
27. Solve a log equation. Pg 490: 69
28. Solve a  $2 \times 2$  system of equations by any method. Pg 803:11,13,23
29. Solve a  $3 \times 3$  system of equations. Pg 813: 5,7
30. Graph of solution set of a system of linear inequalities. Pg 847: 27, 29