

MATH 140 Exam IV (5.1 - 6.4) Review

1. Know how to determine if a function is one-to-one and how to find the inverse of a function.
2. Know how to find the domain and range of f and its inverse f^{-1} .
3. Know how to graph exponential functions and how to solve problems involving exponential functions.
4. Know how to graph logarithmic functions and how to solve problems involving logarithmic functions.
5. Know how the laws of logarithms and change of base formula for logarithms.
6. Know how to solve problems involving compound interest.
7. Know the definition of angle, acute, obtuse, complementary, supplementary, coterminal and quadrantal angle
8. Know how to write the angle in DMS (Degrees Minutes Seconds) form.
9. Know how to convert angle from degree to radian and from radians to degree.
10. Know the right triangle and circular definitions of the trigonometric functions of an angle.
11. Know the Pythagorean identities, reciprocal identities and tangent and cotangent identities.
12. Know the definition of periodic function and the trigonometric formulas for negatives of an angle.

Example exercises: Quiz & Homework questions;

Ch. 5 Test, #1-22;

Ch. 5 Review, #1-62

Ch. 6 Review, #1-29