Practice Final MATH 111 Solutions

NAME:

[11] Let f & g, be functions, and x & y be real numbers.

T $(fg)(x) = (gf)(x)$
Note $f(x)g(x) = g(x)f(x)$.

F $(\frac{f}{g})(x) = (\frac{g}{f})(x)$
Note sometimes $\frac{f(x)}{g(x)} \neq \frac{g(x)}{f(x)}$.

F $x^2 = y$ defines x as a function of y
Note there are two values of x *which satisfy* $x^2 = y$ *when* $y > 0$.

T $x - 2$ is a factor of $\frac{1}{2}x^4 - 2x^2 + x - 2$
Use the factor theorem and the fact that $\frac{1}{2}(2^4) - 2(2^2) + 2 - 2 = 0$.

F $\log(\log(e)) = 0$.
Note $\log(\log(e)) \approx -0.36221$.

T The diameter of a circle varies directly with the radius.
Note $d = 2r$.

Right answers will *not* get credit without supporting work. Note "undefined" and "no solution" are possible answers.

1. [2] Define $\log x = y$

   $\log x = y$ *exactly when* $10^y = x$. *(Alternatively,* $\log x$ *is the exponent you need to raise 10 to in order to get* y.*)*

2. [3] If $g(x) = |x^2 + 3x - 6|$. Find x such that $g(x) = 2x$.

   if $|x^2 + 3x - 6| \geq 0$
   $|x^2 + 3x - 6| = x^2 + 3x - 6$

   So

   $g(x) = 2x$
   $x^2 + 3x - 6 = 2x$
   $x^2 + x - 6 = 0$
   $(x + 3)(x - 2) = 0$
   $x = -3$ or $x = 2$

   or

   if $|x^2 + 3x - 6| < 0$
   $|x^2 + 3x - 6| = -(x^2 + 3x - 6)$

   So

   $g(x) = 2x$
   $-(x^2 + 3x - 6) = 2x$
   $x^2 + 3x - 6 = -2x$
   $x^2 + 5x - 6 = 0$
   $(x + 6)(x - 1) = 0$
   $x = -6$ or $x = 1$

   Checking:

   if $x = -3$
   $g(-3) ? 2(-3)$
   $|(-3)^2 + 3(-3) - 6| ? -6$
   $|-6| ? -6$
   $6 \neq -6$

   if $x = 2$
   $g(2) ? 2(2)$
   $|(2)^2 + 3(2) - 6| ? 4$
   $|4| ? 4$
   $4 = 4$

   if $x = -6$
   $g(-6) ? 2(-6)$
   $|(-6)^2 + 3(-6) - 6| ? -12$
   $|12| ? -12$
   $12 \neq -12$

   if $x = 1$
   $g(1) ? 2(1)$
   $|(1)^2 + 3(1) - 6| ? 2$
   $|-2| ? 2$
   $2 = 2$

Math 111 College Algebra Final Practice Problems

Jane Williams

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Resources in Education ,1995-10 **Correspondence Study Catalog** Kansas State Normal School. Extension Division,1918 **Lewis-Clark State College General Catalog** ,1976 **Bulletin** Ball State University,1946 Paying For College For Dummies Eric Tyson,2020-03-31 Discover a concrete financial plan to finance a college education Financing a college education is a daunting task no matter what your circumstances Bestselling author and personal finance expert Eric Tyson offers tried and true strategic advice on how to understand loans know your options and how to improve your financial fitness while paying down your student loan debt Armed with the checklists and timelines you ll be able to Figure out what colleges actually cost Get to know the FAFSA and CSS Profile TM Research scholarship opportunities Quickly compare financial aid offers from different schools Find creative ways to lighten your debt load Explore alternatives such as apprenticeships online programs Paying for College For Dummies helps parents and independent students navigate everything from planning strategically as a married separated divorced widowed parent completing every question on the FAFSA and CSS PROFILE forms understanding tax laws and so much more No other book offers this much practical guidance on choosing and paying or college **The Advisor, Teacher-course Evaluation** University of Illinois at Urbana-Champaign. Student Senate,1971 **Irm Coll Alg Thru Func/Mod** Herriott,2004-03 The instructor s resource manual provides worked out solutions to all of the problems in the text College Credit Recommendations ,1994

Catalog Number and Announcements for ... Ball State Teachers College,1949 Catalogue and Circular of Information Central Michigan University,1923 **Catalog** Elgin Community College,1969 **Resources in Education** ,1996 Catalogue Number [and] Announcements Oklahoma Baptist University,1945 8 Real SATs College Entrance Examination Board,1996 Includes eight complete SAT examinations **Pueblo Community College Catalog** Pueblo Community College,1991 **The University of Virginia Record** University of Virginia,2007 **United States Air Force Academy** United States Air Force Academy,1972 **Subject Guide to Books in Print** ,1996 *Csm Appl College Alg 2e* Jane Williams,2004-02 The complete solutions manual provides worked out solutions to all of the problems in the text

University of Colorado Bulletin ,1960

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