Dr. Katiraie MA160

Test I Form A (Sections 0.1---1.5)

Summer 08

Solution

Total Possible Points = 100 Points

Show all your work.

1. Let $g(x) = x^2 - 10x + 9$ and $f(x) = \frac{-1}{2}x + 4$

(8 points)

(8 points)

a. Find x when f(x) = 6-4x=2 (X = -4)

b. Find x when
$$g(x) = 0$$

 $X^{2} = 10 \times 49 = 9$
 $(X = 9)(X = 1) = 9$
 $(X = 9)(X = 1)$

c. Find
$$g(a+1)$$

 $(a+1)^2 + 10(a+1) + 9$
 $= a^2 + 2a + 1 - 10a - 10 + 9$
 $= a^2 - 80$

Solve the following equations:

$$a. \qquad \frac{2x}{x-5} = 3$$

$$x = 15$$

b.
$$\frac{3x-1}{7} = \frac{2x+1}{2}$$

$$6x - 2 = 14x + 7$$

$$-9 = 8x$$

$$x = -\frac{9}{8}$$

Solve the following: b) $v^2 - 6v = 7$

a)
$$x^2-16-0$$
 b) $y^2-6y=7$ $(x+4)(x-4)=0$ $y^2-6y-7=0$ $(x=\pm 4)$ $(y-7)(y+1)=0$

c)
$$25x^{2}-64=0$$
 $x^{2}-3x=40$ $(5X+8)(5X-8)=0$ $(X=-\frac{8}{5})$ $(X-8)(X+5)=0$ $(X-8)(X-5)$

Elementary Applied Calculus

William Swan Sonnenschein

Elementary Applied Calculus:

Archibald,1918 Lockyer,1891

Elementary Applied Calculus Raymond F. Coughlin, 1974 For a one or two semester course for students in a liberal arts or business curriculum **Elementary Applied Calculus** J. S. Ratti, 1981 *Introduction to Applied Mathematics* Alan Parks, 2011-11-27 A text for the first term of a substantial revision of the Applied Calculus course MATH 120 at Lawrence University Discrete recursive and analytic models are introduced including the elementary differential calculus Equilibria optimization shadow prices and other applied topics Lessons in applied mechanics, by J.H. Cotterill and J.H. Slade James Henry Cotterill. 1891 The American Mathematical Monthly ,1981 An Introduction to Applied A Laboratory Manual of Physics and Applied Electricity Edward Numerical Analysis Benjamin F. Plybon, 1992 H, Natural science. H*, Medicine and surgery. I, Arts and trades. 1926 William Swan Leamington Nichols, 1894 Sonnenschein, 1926 The Best Books William Swan Sonnenschein, 1926 Thucydides, book VII. Thucydides, 1893 Woolwich Mathematical Papers for Admission Into the Royal Military Academy for the Years, 1880-1890 E. J. Brooksmith, 1891 A Laboratory Manual of Physics and Applied Electricity: Junior course in general physics, by **Ernest Merritt and Frederick J. Rogers** Edward Leamington Nichols, 1897 Calendar University of Sheffield, 1915 The United States Catalog ,1924 A Laboratory manual of The Teaching of Geography Archibald Geikie, 1892 physics and applied electricity v. 1,1894 The Training of Teachers of Mathematics for the Secondary Schools of the Countries Represented in the International Commission on the Teaching of Mathematics Raymond Clare

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Notes on the Principles of Pure and Applied Calculation James Challis, 1869

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