MTH 113 Test 3 Study Guide

Find the exact value of each of the remaining trigonometric functions of $\theta$.
Section 4.4, page 548, problems 23 – 34

Use a sketch to find the exact value of each expression.
Section 4.7, page 598, problems 47 – 62

Find all solutions of each equation.
Section 5.5, page 674, problems 11 – 24

Solve each equation on the interval $[0, 2\pi)$.

Solve each triangle. Round lengths to the nearest tenth and angle measures to the nearest degree.
Section 6.1, page 690, problems 9 – 32
Section 6.2, page 699, problems 9 – 24

Find the area of the triangle having the given measurements. Round to the nearest square unit.
Section 6.1, page 690, problems 33 – 38
Section 6.2, page 700, problems 25 – 30

Solve application problems.
Section 6.2, page 700, problems 39 – 39 - 42

Use a polar coordinate system to plot each point with the given polar coordinates. Then find another representation $(r, \theta)$ of this point in which ...
Section 6.3, page 711, problems 21 – 26

Polar coordinates of a point are given. Find the rectangular coordinates of each point.
Section 6.3, page 712, problems 33 – 40

The rectangular coordinates of a point are given. Find polar coordinates of each point. Express $\theta$ in radians.
Section 6.3, page 712, 41 – 48

Plot each complex number. Then write the complex number in polar form. You may express the argument in degrees or radians.
Section 6.5, page 736, 11 – 26

Write each complex number in rectangular form. If necessary, round to the nearest tenth.
Section 6.5, page 736, 27 – 36

Find the product of the complex numbers. Leave answers in polar form.
Section 6.5, page 736, problems 37 – 40

Find the quotient $\frac{z_1}{z_2}$ of the complex numbers. Leave answers in polar form.
Section 6.5, page 737, problems 45 – 50

Find the indicated power of the complex number. Write answers in rectangular form.
Section 6.5, page 737, problems 53 - 58