Math 112, section _____ _____ NAME: _____
Quiz 11, version A, spring 2012 20
Section 13.5 & 10.1 Seat Location: _____

Full credit is based on work shown!

2pts

1. **Evaluate** $\binom{8}{2} = {}_8C_2 =$

10pts

2. **Expand** this expression using the Binomial Theorem:

$(4x - y)^5 =$

For the following problems, **plot the point** and **label the axes** appropriately for each problem.

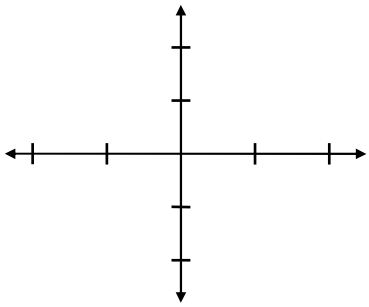
4pts

3. Convert from Polar Coordinates to Rectangular Coordinates:

Plot the point $(r, \theta) = \left(4, \frac{\pi}{3}\right)$ (Notice θ is in radians.)

Then **convert to rectangular coordinates**:

$(x, y) =$ _____



4pts

4. Convert from Rectangular Coordinates to Polar Coordinates.

Plot the point $(x, y) = (-4, -4)$

Then **convert to polar coordinates** $(r, \theta) =$