Rectangular and Polar Coordinates

Explain how the Cartesian coordinates (x, y) give the location of a point.

Explain how the polar coordinates (r, θ) give the location of a point.

Give an equation that represents r in terms of x and y.

What is $sin(\theta)$?

What is $cos(\theta)$

Can you give a general form for representing the rectangular coordinates of a point (x, y) as a polar coordinate?

Can you give equations that would represent a polar coordinate (r, θ) as a cartesian coordinate?