(a)  $x = 3\cos(\pi/2) = 0$ ,  $y = 3\sin(\pi/2) = 3$ , z = 3, so the point is (0,3,3) in rectangular coordinates.





(b)  $x = \cos(-\pi/3) = \frac{1}{2}$ ,  $y = \sin(-\pi/3) = -\frac{1}{2}\sqrt{3}$ , and z = 1, so the point is  $(\frac{1}{2}, -\frac{1}{2}\sqrt{3}, 1)$  in rectangular coordinates.



Assume r = 1 $\theta = -\pi/3$ z = 1