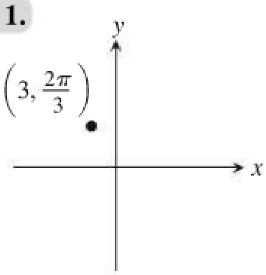
HOMEWORK SECTION 6.4 Part 1

Show all work on LINED PAPER.

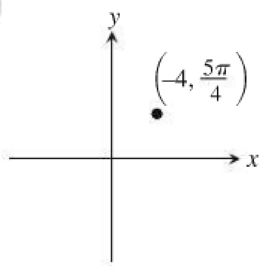
Use Unit Circle to give EXACT values:

In Exercises 1–4, the polar coordinates of a point are given. Find its rectangular coordinates.

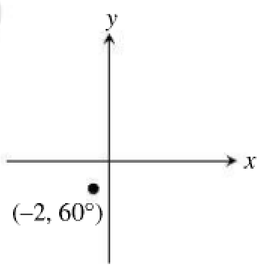
1.



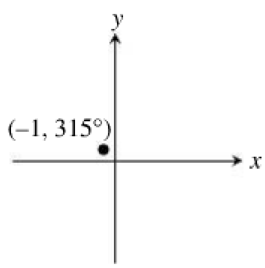
2.



3.



4.



FOR EXERCISES 5 and 6 ONLY DO PART A

In Exercises 5 and 6, **(a)** complete the table for the polar equation and **(b)** plot the corresponding points.

5. $r = 3 \sin \theta$

θ	$\pi/4$	$\pi/2$	$5\pi/6$	π	$4\pi/3$	2π
r						

6. $r = 2 \csc \theta$

θ	$\pi/4$	$\pi/2$	$5\pi/6$	π	$4\pi/3$	2π
r						

TURN OVER- MORE PROBLEMS ON THE BACK!!!

In Exercises 15–22, use an algebraic method to find the rectangular coordinates of the point with given polar coordinates. Approximate the exact solution values with a calculator when appropriate.

16. $(2.5, 17\pi/4)$

18. $(-2, -14\pi/5)$

20. $(1, \pi/2)$

22. $(-3, 360^\circ)$