PHYS 1110 Worksheet: Radians

1.	Fill in the blanks to describe the equivalencies between different rotational measures
	1 revolution = radians
	1 revolution = degrees
	Radians = degrees
2.	Complete the conversions.
	2 revolutions = radians
	1/8 revolution = radians
	45° = radians
	1 rad/s = rev/min
	100 rev/min = rad/s
3.	A basketball with a radius of 12.0 cm rolls 30.0 meters in 12.0 seconds.
	How many radians does it turn?
	How many cycles does it turn?
	What is its average linear speed, in meters per second?
	What is its average angular speed, in radians per second?