APPM 1350	Name:	
Fall 2021		
Quiz 5		
10/05/2021		
Time Limit: 10 Minutes	Recitation Section:	

1. (10 points) You're burning a log (idealized as a cylinder) on the fire. The fire evenly consumes the log such that the radius decreases by 3 inches every hour. Supposing that the log initially has a radius of 6 inches, how fast is the cross-sectional area of the log decreasing after the log has been on the fire for 40 minutes? Show all work.