

Name: _____

Physics 201 Quiz 7

Feb 25, 2013

Word Problems

Show all your work and circle your final answer. (Ten points each.)

1. A flywheel has a constant angular deceleration of 2.0 rad/s^2 . (a) Find the angle through which the flywheel turns as it comes to rest from an angular speed of 220 rad/s . (b) Find the time required for the flywheel to come to rest.

- 2.** A fan blade is rotating with a constant angular acceleration of 12.0 rad/s^2 . At what point on the blade, measured from the axis of rotation, does the magnitude of the tangential acceleration equal that of the acceleration due to gravity?