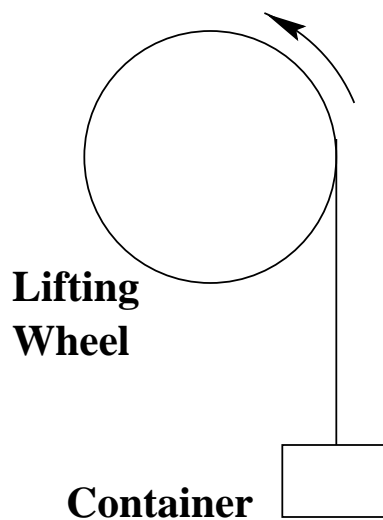




4. A large wheel of diameter 2 feet is used to lift containers as shown below.



- (a) (3) What is the distance the container is raised if the wheel rotates through an angle of  $\frac{9\pi}{4}$  radians?
- (b) (3) What is the angle in radians through which the wheel must rotate in order to lift a container 30 feet?

Name \_\_\_\_\_

Student Id: \_\_\_\_\_

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Quiz 5

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5. An old LP record has a 12 inch diameter, and it rotates with an angular speed of  $33\frac{1}{3}$  RPM.

(a) (3) What is the angular speed of the record in radians per minute?

(b) (3) What is the linear speed of a point on the **outer edge** of the record?