

## Giancoli Physics Chapter 5 Solutions

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This is Giancoli Answers with Mr. Dychko. Let's begin the solution by dividing this diameter by 2 to get the radius since the radius is what we are gonna use in our centripetal acceleration formulas. So 35 centimeters divided by two 17.5 centimeters and then we'll convert that into meters because we always want meters, kilograms, seconds, those types of units, mks units, for our formulas.

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Giancoli 7th Edition, Chapter 5, Problem 15 | Giancoli Answers

Summary of Chapter 5 • An object moving in a circle at constant speed is in uniform circular motion. • It has a centripetal acceleration • There is a centripetal force given by • The centripetal force may be provided by friction, gravity, tension, the normal force, or others. •

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Giancoli 7th Edition, Chapter 5, Problem 2 | Giancoli Answers  
Solutions to Physics: Principles with Applications, 5/E,  
Giancoli Chapter 4 Page 4 - 5 22. (a) If we assume that he  
accelerates for a time  $t_1$  over the first 50 m and reaches a top  
speed of  $v$ , we have  $x_1 = \frac{1}{2}(v_0 + v)t_1 = \frac{1}{2}vt_1$ , or  $t_1 = 2x_1/v =$   
 $2(50 \text{ m})/v = (100 \text{ m})/v$ . Because he maintains this top speed for  
the last 50 m, we have  $t_2 = (50 \text{ m})/v$ .

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Solutions to Physics: Principles with Applications, 5/E,  
Giancoli Chapter 18 Page 18 - 5 26. (a) From  $P = V^2/R$ , we see  
that the lower power setting, 600 W, must have the higher

resistance. (b) At the lower setting, we have  $P_1 = V^2/R_1$ ;  $600 \text{ W} = (120 \text{ V})^2/R_1$ , which gives  $R_1 = 24 \ \Omega$ . (c) At the higher setting, we have  $P_2 = V^2/R_2$ ;

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