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Indicated In Figure P1.70. Calculate The Natural Frequency Of Vibration Of The Smaller Pipe (of Radius  $R_1$ ) Rolling Back And Forth Inside The Larger Pipe (of Radius  $R$ ). Use The Energy Method And Assume That The Inside Pipe Rolls Without Slipping

And Has A Mass M. TRUCKER Truck Bed Small Pipe Large Pipe (a) R 1 R O O' A A' B Mg B) Figure P1.70 Jan 11th, 2024

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27h ~ 1 24 4 31 038 H ~ 1 24 05 15 038 H ~ 1 24 01 3 038 H ~ 1 24 01 3 0017 H

The Linear System Whose Augmented Matrix Is The Last One Shown Is Consistent If And Only If  $17 \neq 0$ . Thus,  $B$  Is In The Plane Spanned By  $A_1$  And  $A_2$  If And Only If  $17 \neq 0$ . Since  $v_2 = 1.5v_1$ ,  $\text{Span } \{v_1, v_2\}$  Is A Line Through The Origin In  $\mathbb{R}^3$ . (If  $v_1$  And  $v_2$  Are Linearly Independent, Then  $\text{Span } \{v_1, v_2\}$  Is A Plane Through The Origin In  $\mathbb{R}^3$ .)  
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Radius, e.g., Trying To Rewrite The Equation Of The Circle In The Form  $(x - A)^2 + (y - B)^2 = R^2$  Radius = 5  
B1 M1 A1 AO1 AO1 AO1 (b) Gradient Increase In Increase In Y  
AP X Gradient ( 7 ) ( 3 ) 4 4 1 3 AP A1 Use Of M Tan M Rad = -1 ... May 5th, 2024

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Page 2 (Section 5.3) The Rational Zero Theorem: If  $f(x) = a_n x^n + \dots + a_1 x + a_0$  has integer coefficients and  $\frac{p}{q}$  (reduced to lowest terms) is a rational zero of  $f$ , then  $p$  is a factor of the constant term,  $a_0$ , and  $q$  is a factor of the leading coefficient,  $a_n$ . ... Example 3: List Feb 8th, 2024

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