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Mechanics of Aircraft structures C.T. Sun 7.2 A bar is built-in at the left end and supported at the tight end by a linear spring with spring constant . Find the equation for buckling loads. Hint: The boundary conditions are 0 = w and 0 / = dx dw at the left end; and and 0 = M w V – = at the right end.

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 $z z s c z V V V y V 055. 0 06. 0) 055. 0 ( - - - = \Rightarrow m y s c 17. 0 - =$  The negative sign indicates the opposite side as we assumed.--- ANS (b) Figure 5.32 (1) Since this cross-section is symmetric with respect to y axis, shear center is located in the y axis.

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