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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 right end by a linear spring with spring constant α . Find the equation for buckling loads. Hint: The boundary conditions are $0 = w$ and $0 / = dx dw$ at the left end; and $0 = M w V \alpha - =$ at the right end.

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Mechanics of Aircraft structures C.T. Sun So we can determine the shear center by $\sum = q V M M \Rightarrow z z z sc z V V V y V 055. 0 06. 0) 055. 0 (- - - = \Rightarrow m y sc 17. 0 - =$ 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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