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structural engineering, mechanics, and materials department of civil and environmental engineering university  
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engineering mechanics - dynamics chapter 12 solution:  $a = \frac{v^2}{\rho} = \frac{(180 \text{ ft/s})^2}{72 \text{ ft}} = 360 \text{ ft/s}^2$  = note  
that the time doesn't matter here because the speed is constant. \*problem 12-104 a boat is traveling along a  
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