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acceleration. 1.

Determine deformation  
and velocity at impact.

$$= u(0) = mg = 10 =$$

$$0.2 \text{ in. } u\dot{=} = \omega^2 u =$$

$$(43.93) (3.8) 7334$$

$$\text{in./sec}^2 = 18.98g \text{ k}$$

$$u\dot{&}(0) = -50 \text{ } 2 \text{ gh} = -$$

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2(386)(36) = -166.7

in./sec<sup>2</sup>. Determine  
the natural frequency.

$\omega_n = \sqrt{kg} = \sqrt{50 \cdot 386}$   
10.4 3.9 rad/sec 3.

Compute the maximum  
deformation.  $u(t) =$   
 $u(0) \cos \omega t +$

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