Name Keg

Assume there is a 30% chance that Falling Apple's EBIT will equal \$15 million per year, a 45% chance that Falling Apple's EBIT will equal \$25 million per year, and a 25% chance that Falling Apple's EBIT will equal \$40 million per year.

- a. What is Falling Apple's optimal level of interest payments if capital markets are perfect? Note: No need to justify your answer.
- b. How will Falling Apple's optimal level of interest payments change (compared to a) if the corporate tax rate equals 30%?
- c. How will Falling Apple's optimal level of interest payments change (compared to b) if the corporate tax rate equals 30%, the personal tax rate on equity income is 10%, and the personal tax rate on ordinary income is 40%? <u>Justify your answer</u>.
- d. How will Falling Apple's optimal level of interest payments change (compared to c) if there is the potential for conflict of interest between the firm's stockholders and bondholders? Note: No need to justify your answer.

a. There is no optnal level b. \$40 millian pergear wit

c.  $\frac{0-15}{1}$  = -.05 MeV  $\Rightarrow 0 \text{ phing} l = \frac{1}{5} 0$ 

d. No charge = comment - this would drive up time! | every e Le
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