Quiz: Given the following information, set up the calculations required to determine the beta of Dropping Apple's assets and debt. Plug in as many numbers as possible.

Information on:

Dropping Apple's stock: current market value = \$50,000, beta = 1.4

Dropping Apple's bonds: maturity = 4 years, maturity value = \$55,000, current market value = \$40,000

Returns: Dropping Apple's bonds = 8.3%, U.S. Treasuries that mature in 4 years = 2%

Returns: Dropping Apple's stock as a call on the firm's assets: the price of a U.S. Treasury that matures for \$55,000 in 4 years = \$50,811, implied volatility = 49.1%, d1 = 1.0732, d2 = 0.0914

Note: Bonus WSJ Questions on back of page

$$A = 50,000 + 40,000 = 90,000$$

$$D = N(A) = N(1.0732) = .85769$$

$$A = \frac{\beta_E}{X_{11}} = \frac{1.418}{.85769} = \frac{1$$