Quiz	A	for	4:00	Class:	10/29/12

Name Key

Assume a firm has outstanding debt that matures for \$1,000,000 seven years from today.

- a. A firm's stock can be viewed in terms of options. From this perspective sketch a graph of the potential payoffs on the firm's stock and the specific payoffs to stockholders if the value of the firm's assets equals \$800,000 or \$1,300,000 seven years from today. Clearly label and put a dot at each payoff.
- b. A firm's risky bonds can be viewed as a portfolio of options and risk-free bonds. From this perspective sketch a graph of the potential payoffs on the firm's bonds and the specific payoffs to bondholders if the value of the firm's assets equals \$800,000 or \$1,300,000 seven years from today. Be sure to show the payoffs on the options, the risk-free bond, and the combined payoff that equals the payoff on the risky bonds. Clearly label and put a dot at each specific payoff.

c. Explain in terms of options and risk-free bonds how an increase in the value of the firm's assets affects the value of the firm's outstanding stocks and bonds.

51= 60 43= 57 22= 90045 21= 44442 15= 24431 14= 2479

45=75

56=68

Wall Street Journal Questions are on the back of this page.