Ouiz	B	for	2:30	Class:	10/02/13
Qui		IUI	4.50	CIMBB.	IUIUZIIJ

Name Key

Short Answer 1 (15 points): Sketch a reasonable set of portfolios you could build if you buy (no short-selling) shares of Chevron (CVX) and Google (GOOG). Assume the expected return on CVX is 11% and on GOOG is 20%, the standard deviation of returns on CVX is 14% and on GOOG is 21%, and the correlation between CVX and GOOG is + 0.15.

Short Answer 2 (15 points): On the same graph you used to answer SA1, show how your graph would change if the correlation between CVX and GOOG rises to +0.7. Be sure to clearly label which part of your graph answers SA1 and which part of your graph answers SA2.

Problem (75 points): Based on the past five years of returns, set up the calculations needed to determine the standard deviation of returns on Toyota (TM) and Proctor & Gamble (PG), the covariance between Toyota and Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the standard deviation of returns on your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the young the your portfolio if you short-sell \$400,000 of Proctor & Gamble, and the young t

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Gamble and buy \$900,000 of Toyota.

	Return on:		
Year	<u>TM</u>	<u>PG</u>	
2013	63%	12%	
2012	15%	13%	
2011	-5%	9%	
2010	-9%	7%	
2009	-8%	-14%	

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

$$\frac{1}{3}\left(\vec{r}_{1} = \vec{r}_{1}^{2}\left((6\frac{1}{3} - \vec{r}_{1})^{2} + (5\frac{1}{5} - \vec{r}_{1})^{2} + (-5\frac{1}{5} - \vec{r}_{1})^{2} + (-5\frac{1}{5}$$