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- What is the terminal, or horizon, value of operations? (*Hint*: Find the value of all free cash flows beyond Year 2 discounted back to Year 2.)
- Calculate the value of Kendra's operations.

**(7-18)**  
Free Cash Flow  
Valuation

Dozier Corporation is a fast-growing supplier of office products. Analysts project the following free cash flows (FCFs) during the next 3 years, after which FCF is expected to grow at a constant 7% rate. Dozier's weighted average cost of capital is WACC = 13%.

	Year		
	1	2	3
Free cash flow (\$ millions)	-\$20	\$30	\$40

- What is Dozier's terminal, or horizon, value? (*Hint*: Find the value of all free cash flows beyond Year 3 discounted back to Year 3.)
- What is the current value of operations for Dozier?
- Suppose Dozier has \$10 million in marketable securities, \$100 million in debt, and 10 million shares of stock. What is the intrinsic price per share?

Challenging  
Problems 19-21

**(7-19)**  
Constant Growth  
Stock Valuation

You are analyzing Jillian's Jewlery (JJ) stock for a possible purchase. JJ just paid a dividend of \$1.50 *yesterday*. You expect the dividend to grow at the rate of 6% per year for the next 3 years; if you buy the stock, you plan to hold it for 3 years and then sell it.

- What dividends do you expect for JJ stock over the next 3 years? In other words, calculate  $D_1$ ,  $D_2$ , and  $D_3$ . Note that  $D_0 = \$1.50$ .
- JJ's stock has a required return of 13% and so this is the rate you'll use to discount dividends. Find the present value of the dividend stream; that is, calculate the PV of  $D_1$ ,  $D_2$ , and  $D_3$ , and then sum these PVs.
- JJ stock should trade for \$27.05 3 years from now (i.e., you expect  $\hat{P}_3 = \$27.05$ ). Discounted at a 13% rate, what is the present value of this expected future stock price? In other words, calculate the PV of \$27.05.
- If you plan to buy the stock, hold it for 3 years, and then sell it for \$27.05, what is the most you should pay for it?
- Use the constant growth model to calculate the present value of this stock. Assume that  $g = 6\%$  and is constant.
- Is the value of this stock dependent on how long you plan to hold it? In other words, if your planned holding period were 2 years or 5 years rather than 3 years, would this affect the value of the stock today,  $\hat{P}_0$ ? Explain your answer.

**(7-20)**  
Nonconstant Growth  
Stock Valuation

Reizenstein Technologies (RT) has just developed a solar panel capable of generating 200% more electricity than any solar panel currently on the market. As a result, RT is expected to experience a 15% annual growth rate for the next 5 years. By the end of 5 years, other firms will have developed comparable technology, and RT's growth rate will slow to 5% per year indefinitely. Stockholders require a return of 12% on RT's stock. The most recent annual dividend ( $D_0$ ), which was paid yesterday, was \$1.75 per share.

- Calculate RT's expected dividends for  $t = 1$ ,  $t = 2$ ,  $t = 3$ ,  $t = 4$ , and  $t = 5$ .
- Calculate the estimated intrinsic value of the stock today,  $\hat{P}_0$ . Proceed by finding the present value of the dividends expected at  $t = 1$ ,  $t = 2$ ,  $t = 3$ ,  $t = 4$ , and  $t = 5$  plus the present value of the stock price that should exist at  $t = 5$ ,  $\hat{P}_5$ . The  $\hat{P}_5$  stock price can



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