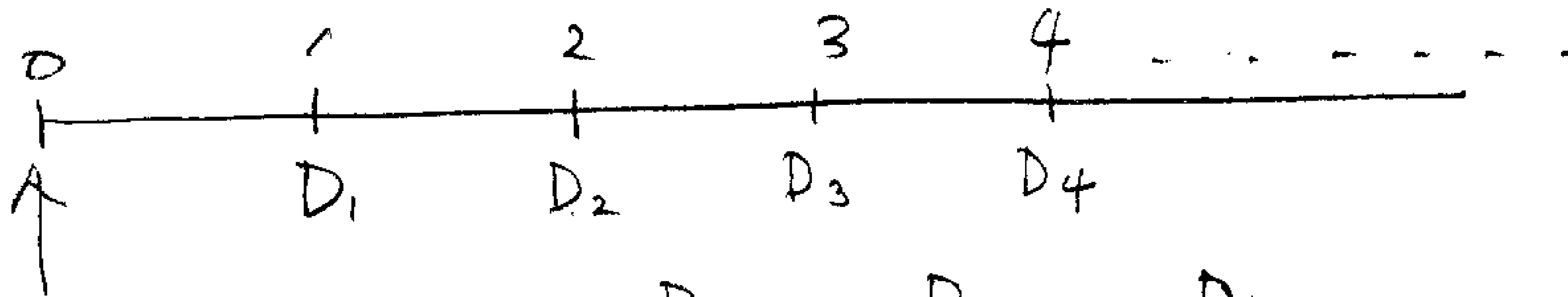
Stock Valuation

Dividend Discount Model

→ Stock price should be equal to the PV of future dividends.



$$\text{stock price today} = \frac{D_1}{1+r} + \frac{D_2}{(1+r)^2} + \frac{D_3}{(1+r)^3} + \cdots$$

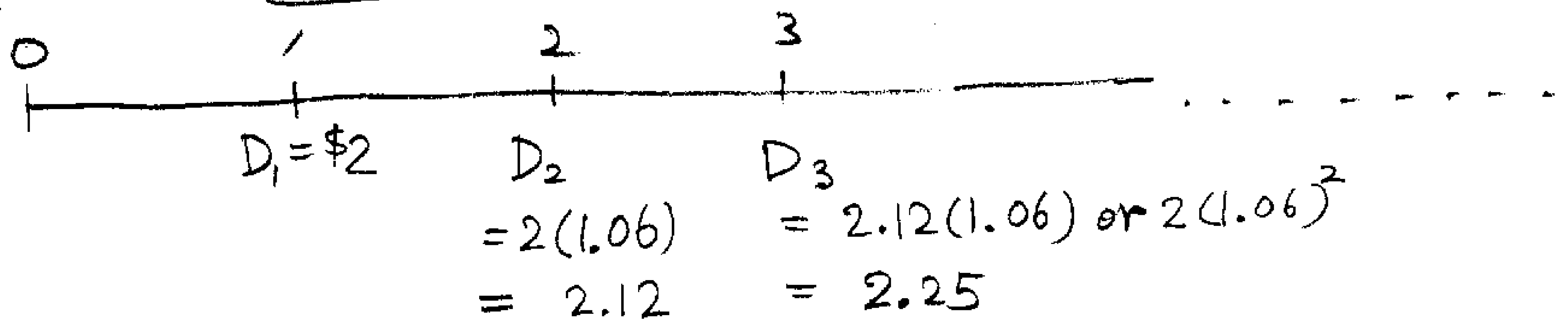
where D_t is the dividend in year t and r is the required rate of return on the stock.

① Constant Growth Model

→ assumes that the dividend will grow at a constant rate over time.

This means $D_{t+1} = D_t(1+g)$, g is the dividend growth rate.

For example, a firm is <u>expected</u> to pay a dividend of \$2 per share <u>next year</u> and its dividend growth rate is 6%.



A firm <u>just paid</u> a \$1.2 dividend per share and its dividend growth rate is 5%.