

- *The Gordon Growth Model is the most common example of the Dividend Discount Model
- *Named after Myron J
 Gordon who originally
 published it along with Eli
 Shapiro in 1956

- *The formula is shown here, where
- *P= Current Stock Price
- *D1 is the value of next year's P = D1 / (r g)dividend
- *r = the required rate of return
- *g = growth rate

$$*P = D1 / (r - g)$$

- *This can be rearranged to derive the rate of return
- *Dividend Yield plus growth = Cost of Equity

$$*(D1/P) + g = r$$

- *Taking this further you can look at the growth rate as a proxy for the growth of earnings and by extension the stock price and capital gains
- *The Cost of Equity Capital derived from the Model can be taken as a proxy for the investors required rate of return

- *(D1/P) + g = r
- *Income + Capital

 Gain = Total

 Dotates

- *It follows from the original formula that (r g) cannot be negative
- *In the event that the growth rate is expected to exceed the cost of equity in the short term, a multi stage DDM is required.

$$*P = D1 / (r - g)$$

- *The Gordon Growth Model is most appropriate for mature businesses
- *When a company does not pay a dividend, such as a growth stock or as a matter of policy such as Amazon, different techniques need to be used

- *In these situations we can adopt the Modigliani-Miller hypothesis of dividend irrelevance and replace the stock dividend with earnings per share.
- *This requires growth and discount rate assumptions for earnings rather than dividends which may be different.

- *As with all valuation methods, the models is only as good as its assumptions
- *It does offer another relatively simple way to arrive at a valuation and in this case there is no requirement to construct an excel spreadsheet to arrive at a value.

