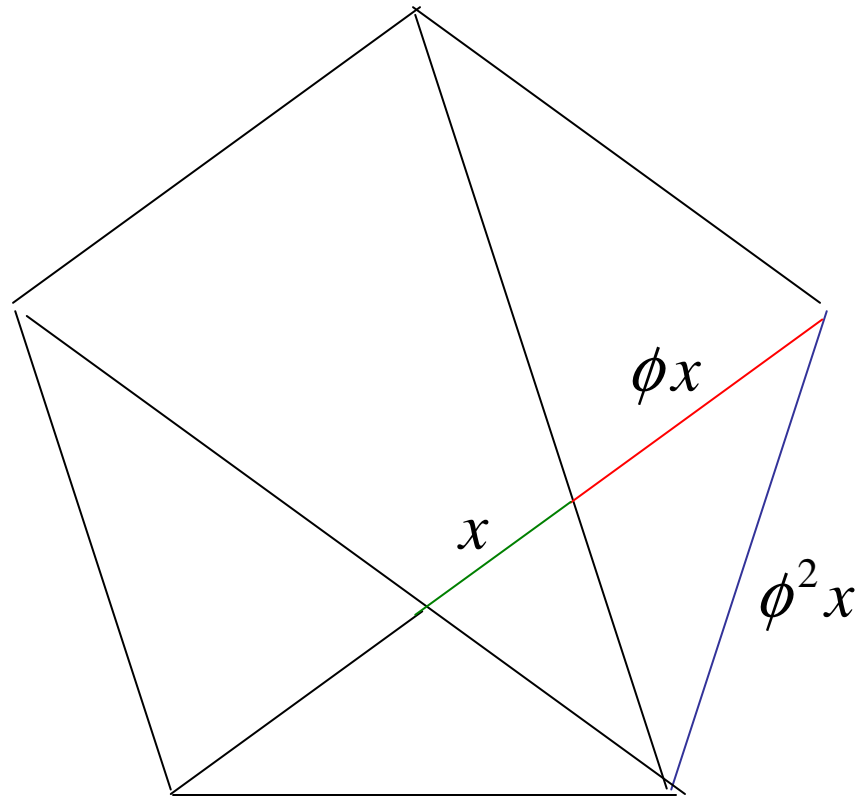


## The Golden Ratio & the Pentagon



$$\phi^2 x = x + \phi x$$

$$\phi = \frac{1 \pm \sqrt{1 - (-4)}}{2} = 1.6180339887 \dots$$

$$\phi^{-1} = 0.618034 \dots, \quad \phi^2 = 2.618034 \dots$$