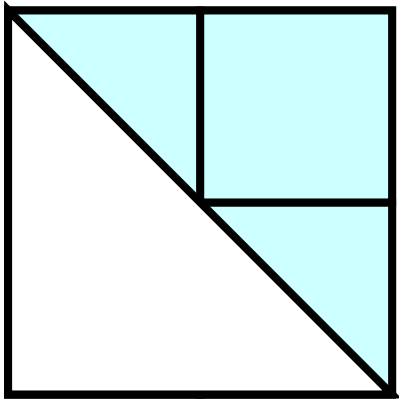
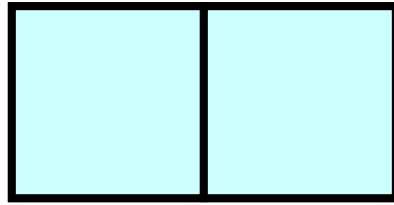


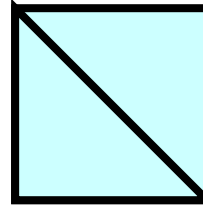
# Relative Areas of Power Polygons



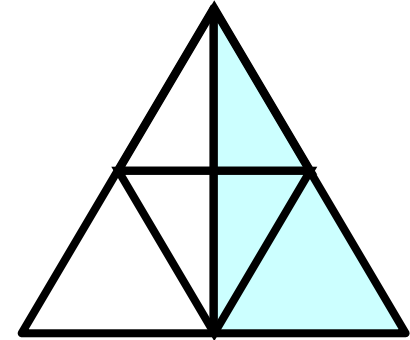
$$A = 4B = 2E$$



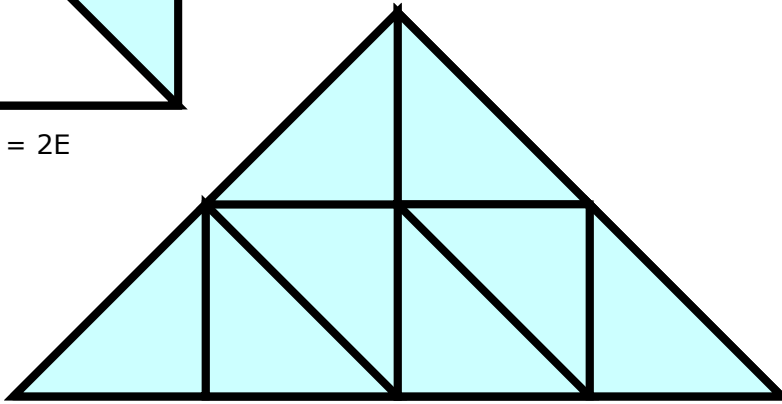
$$C = 2B$$



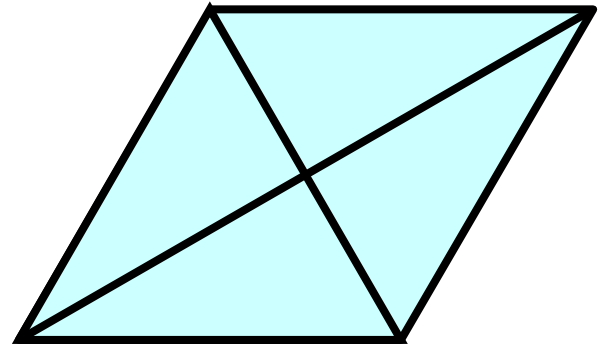
$$B = 2F$$



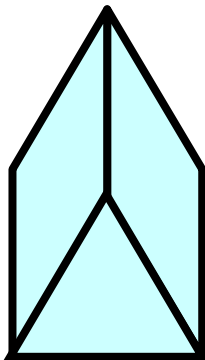
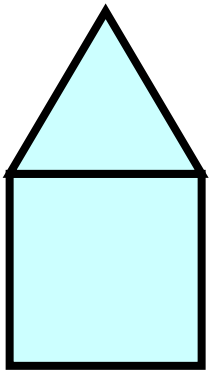
$$2L = I = 4N$$



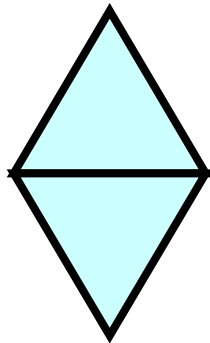
$$D = 8F = 2E$$



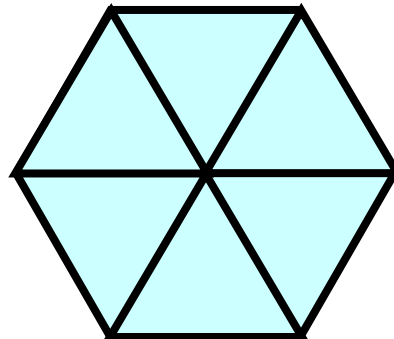
$$G = 2J = 2I = 4L$$



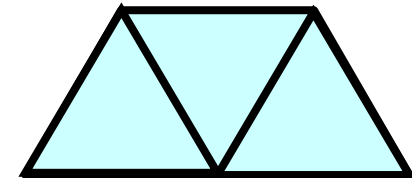
$$N + B = N + 2O$$



$$M = 2N$$



$$H = 6N$$

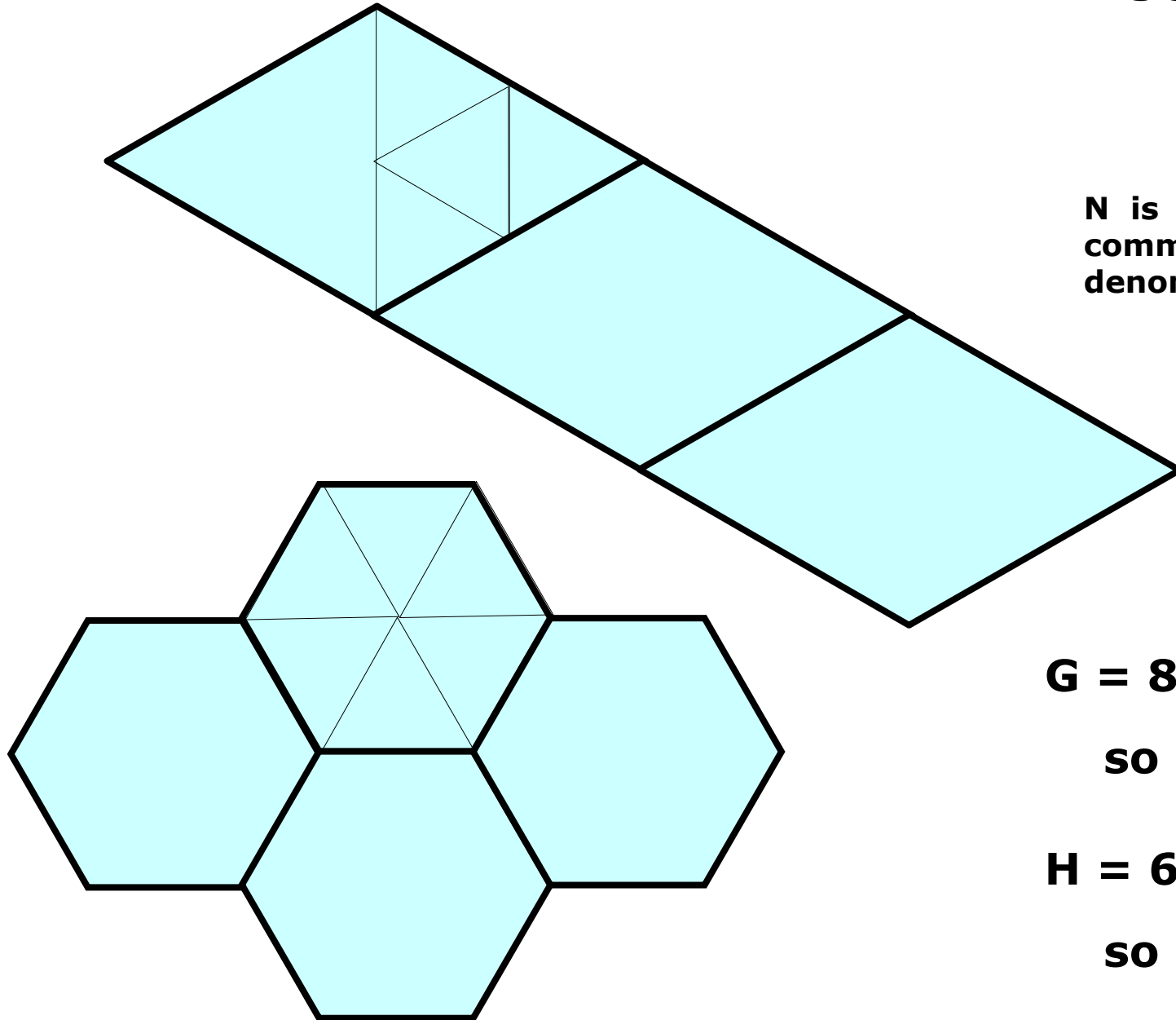
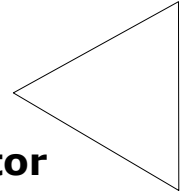


$$K = 3N$$

Here's a little construction showing how 3G has the same area as 4H.  
(We'll use N as the common denominator.)

$$3G = 4H$$

N is the  
common  
denominator



$$G = 8N$$

$$\text{so } 3G = 24N$$

$$H = 6N$$

$$\text{so } 4H = 24N$$

