



Circle

$$\text{Area} = \pi r^2$$

$$\text{Circ} = 2\pi r$$

$$\text{Circularity} = \frac{4\pi(\pi r^2)}{4\pi^2 r^2} = 1$$

Square

$$\text{area} = a^2$$

$$\text{circ} = 4a$$

$$\text{circ} = \frac{4\pi a^2}{16 a^2} = \frac{\pi}{4} \approx .78$$

rect.

$$\text{area} = ab$$

$$\text{circum} = 2a + 2b$$

circularity

$$\frac{4\pi ab}{(2a + 2b)^2}$$