

Semicircle

Diameter = Formula

$$10 \quad 1 = \pi R^2$$

12

14

16

$$18 \quad 10 = 1 = \frac{(\pi)(5^4)}{8} = 245.4369261$$

$$12 = 1 = \frac{(\pi)(6^4)}{8} = 508.9320044$$

$$14 = 1 = \frac{(\pi)(7^4)}{8} = 442.8704952$$

$$16 \quad 1 = \frac{(\pi)(8^4)}{8} = 1,608.495439$$

$$18 = 1 = \frac{(\pi)(9^4)}{8} = 2,1576,448675$$

Triangle isosceles

B m

$$12 \quad 10 \quad 11 = \frac{b^2 h}{2}$$

$$14 \quad 11.5 \quad 11 = \frac{(12^2)(10)}{2}$$

$$16 \quad 13 \quad 11 = \frac{(14^2)(11.5)}{2}$$

$$18 \quad 14.5 \quad 11 = \frac{(16^2)(13)}{2} = 1,104333$$

$$20 \quad 16 \quad 11 = \frac{(20^2)(16)}{2} = 2,666.66667$$

Media parabola

$$1 \quad I_x = ((0.12) (0.08^3) / 20 = 3.72 \times 10^{-6} \quad h_y / 30$$

$$I_y = ((0.12^3) (0.08) / 35 = 0.000003444 \quad 14971$$

$$2 \quad I_x = ((0.03) (0.12^3) / 20 = 0.000002542$$

$$I_y = ((0.03^3) (0.12) / 35 = 0.00000000425714$$

$$3 \quad I_x = ((0.06) (0.03^3) / 20 = 0.000000081$$

$$I_y = ((0.06^3) (0.03) / 35 = 0.000000185142$$

$$4 \quad I_x = ((0.13) (0.07^3) / 20 = 0.0000022245$$

$$I_y = ((0.13^3) (0.07) / 35 = 0.000004344$$

$$5 \quad I_x = ((0.13) (0.10^3) / 20 = 0.0000065$$

$$I_y = ((0.13^3) (0.10) / 35 = 0.0000062$$

$$6 \quad I_x = ((0.06) (0.07^3) / 20 = 0.000001024$$

$$I_y = ((0.06^3) (0.07) / 35 = 0.000000432$$