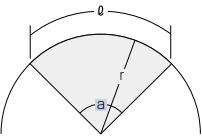
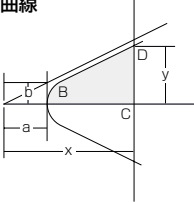
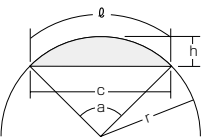
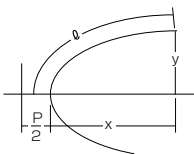
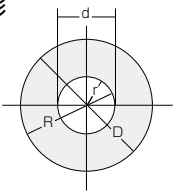
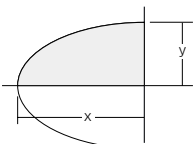
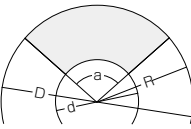
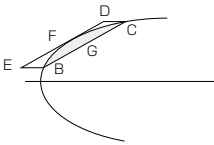
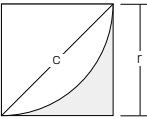
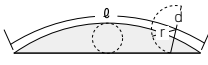
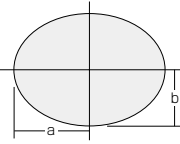


<p>円分</p>  <p>$A = \text{面積}$ $l = \text{弧の長さ}$ $a = \text{角度}$</p> $l = \frac{r \alpha \times 3.1416}{180} = 0.01745 r \alpha$ $= \frac{2A}{r}$ $A = \frac{1}{2} r l = 0.008727 \alpha r^2$ $a = \frac{57.296 l}{r} \quad r = \frac{2A}{l} = \frac{57.296 l}{a}$	<p>A=面積 $l = \text{弧の長さ}$ $a = \text{角度}$</p> $l = \frac{r \alpha \times 3.1416}{180} = 0.01745 r \alpha$ $= \frac{2A}{r}$ $A = \frac{1}{2} r l = 0.008727 \alpha r^2$ $a = \frac{57.296 l}{r} \quad r = \frac{2A}{l} = \frac{57.296 l}{a}$	<p>双曲線</p>  <p>A=面積BCD</p> $A = \frac{xy}{2} - \frac{ab}{2} \log\left(\frac{x}{a} + \frac{y}{b}\right)$	
<p>欠円</p>  <p>A=面積 $l = \text{弧の長さ}$ $a = \text{角度}$</p> $c = 2\sqrt{h(2r-h)}$ $A = \frac{1}{2} [r l - c(r-h)]$ $r = \frac{c^2 + 4h^2}{8h} \quad l = 0.01745 ar$ $h = r - \frac{1}{2} \sqrt{4r^2 - c^2} \quad a = \frac{57.296 l}{r}$	<p>A=面積 $l = \text{弧の長さ}$ $a = \text{角度}$</p> $c = 2\sqrt{h(2r-h)}$ $A = \frac{1}{2} [r l - c(r-h)]$ $r = \frac{c^2 + 4h^2}{8h} \quad l = 0.01745 ar$ $h = r - \frac{1}{2} \sqrt{4r^2 - c^2} \quad a = \frac{57.296 l}{r}$	<p>放物線</p>  <p>$l = \text{弧の長さ} = \frac{p}{2} \left(\sqrt{\frac{2x}{p}} \left(1 + \frac{2x}{p} \right) \right. \\ \left. + \text{hyp.log} \left(\sqrt{\frac{2x}{p}} + \sqrt{1 + \frac{2x}{p}} \right) \right)$ xがyに比し小なる場合の近似公式</p> $l = y \left(1 + \frac{2}{3} \left(\frac{x}{y} \right)^2 - \frac{2}{5} \left(\frac{x}{y} \right)^4 \right)$ <p>または $l = \sqrt{y^2 + \frac{4}{3} x^2}$</p>	<p>A=面積</p> $A = \frac{2}{3} xy$ <p>(すなわち x を底辺とし y を高さとする矩形の面積の $\frac{2}{3}$ に等しい)</p>
<p>環形</p>  <p>A=面積</p> $A = \pi(R^2 - r^2) = 3.1416(R^2 - r^2)$ $= 3.1416(R+r)(R-r)$ $= 0.7854(D^2 - d^2)$ $= 0.7854(D+d)(D-d)$	<p>A=面積</p> $A = \pi(R^2 - r^2) = 3.1416(R^2 - r^2)$ $= 3.1416(R+r)(R-r)$ $= 0.7854(D^2 - d^2)$ $= 0.7854(D+d)(D-d)$	<p>放物線</p>  <p>A=面積</p> $A = \frac{2}{3} xy$ <p>(すなわち x を底辺とし y を高さとする矩形の面積の $\frac{2}{3}$ に等しい)</p>	<p>A=面積</p> $A = \frac{2}{3} xy$ <p>(すなわち x を底辺とし y を高さとする矩形の面積の $\frac{2}{3}$ に等しい)</p>
<p>扇形</p>  <p>A=面積 $a = \text{角度}$</p> $A = \frac{a\pi}{360} (R^2 - r^2)$ $= 0.00873 a (R^2 - r^2)$ $= \frac{a\pi}{4 \times 360} (D^2 - d^2)$ $= 0.00218 a (D^2 - d^2)$	<p>A=面積 $a = \text{角度}$</p> $A = \frac{a\pi}{360} (R^2 - r^2)$ $= 0.00873 a (R^2 - r^2)$ $= \frac{a\pi}{4 \times 360} (D^2 - d^2)$ $= 0.00218 a (D^2 - d^2)$	<p>放物線切片</p>  <p>A=面積</p> $A = \text{BFC} = (\text{平行四辺形BCDEの面積}) \times \frac{2}{3}$ $= \text{BCより直角に測りたる切片の高さをFGとせば}$ $A = \text{BFC} = \frac{2}{3} \text{BC} \times \text{FG}$	<p>A=面積</p> $A = \text{BFC} = (\text{平行四辺形BCDEの面積}) \times \frac{2}{3}$ $= \text{BCより直角に測りたる切片の高さをFGとせば}$ $A = \text{BFC} = \frac{2}{3} \text{BC} \times \text{FG}$
<p>角縁</p>  <p>A=面積</p> $A = r^2 - \frac{\pi r^2}{4} = 0.215 r^2$ $= 0.1075 c^2$	<p>A=面積</p> $A = r^2 - \frac{\pi r^2}{4} = 0.215 r^2$ $= 0.1075 c^2$	<p>サイクロイド</p>  <p>A=面積</p> $l = \text{「サイクロイド」の長さ}$ $A = 3\pi r^2 = 9.4248 r^2$ $= 2.3562 d^2$ $= (\text{転動円の面積}) \times 3$ $l = 8r = 4d$	<p>A=面積</p> $l = \text{「サイクロイド」の長さ}$ $A = 3\pi r^2 = 9.4248 r^2$ $= 2.3562 d^2$ $= (\text{転動円の面積}) \times 3$ $l = 8r = 4d$
<p>楕円</p>  <p>A=面積 $P = \text{楕円の周囲}$</p> $A = \pi ab = 3.1416 ab$ <p>Pを求める近似公式</p> $1. P = 3.1416 \sqrt{2(a^2 + b^2)}$ $2. P = 3.1416 \sqrt{2(a^2 + b^2) - \frac{(a-b)^2}{22}}$	<p>A=面積 $P = \text{楕円の周囲}$</p> $A = \pi ab = 3.1416 ab$ <p>Pを求める近似公式</p> $1. P = 3.1416 \sqrt{2(a^2 + b^2)}$ $2. P = 3.1416 \sqrt{2(a^2 + b^2) - \frac{(a-b)^2}{22}}$		