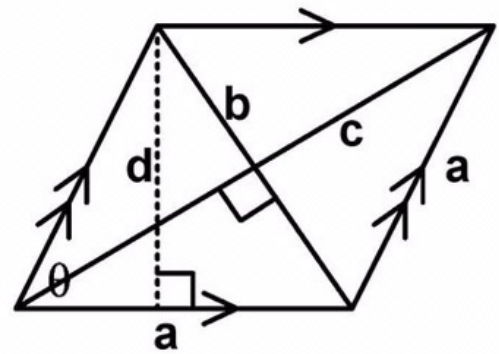
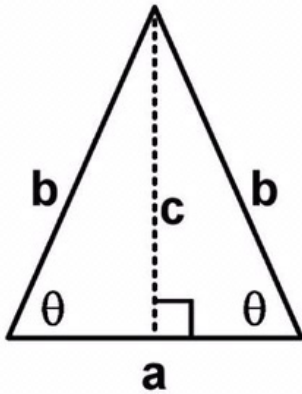


$$A = \frac{\sqrt{3}}{4} a^2$$

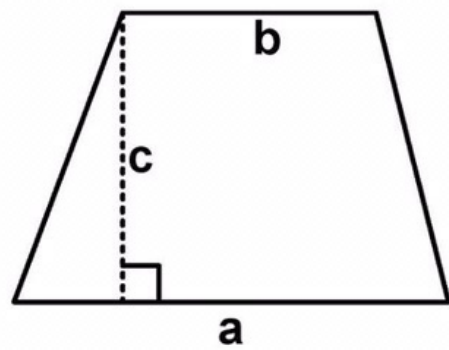


$$A = ad = a^2 \sin \theta = \frac{1}{2} bc,$$

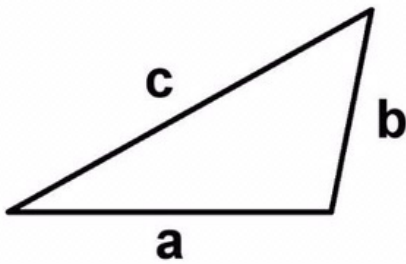
$$d = a \sin \theta = \frac{bc}{2a}$$



$$A = \frac{1}{2} ac = \frac{1}{2} ab \sin \theta$$

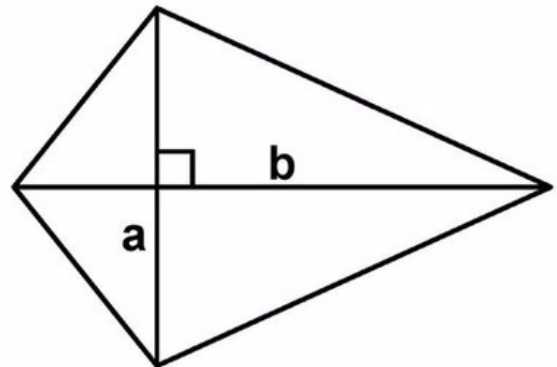


$$A = \frac{1}{2} c(a+b)$$

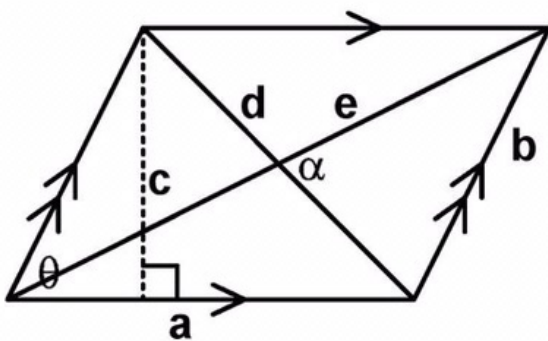


$$A = \sqrt{s(s-a)(s-b)(s-c)},$$

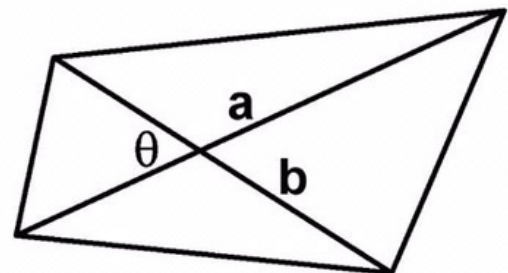
$$s = \frac{(a+b+c)}{2}$$



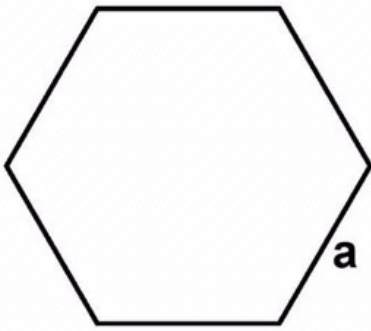
$$A = \frac{1}{2} ab$$



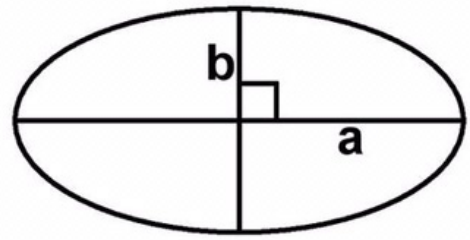
$$A = ac = ab \sin \theta = \frac{1}{2} de \sin \alpha$$



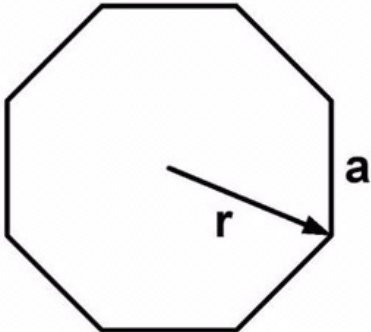
$$A = \frac{1}{2} ab \sin \alpha$$



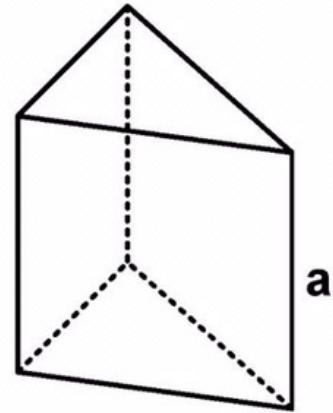
$$A = \frac{3\sqrt{3}}{2} a^2$$



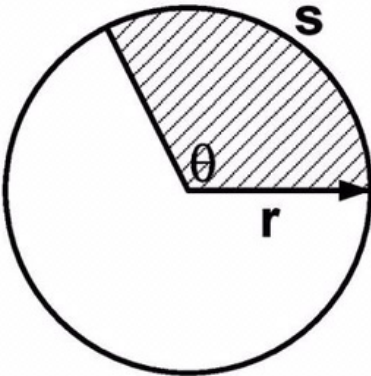
$$A = \pi ab$$



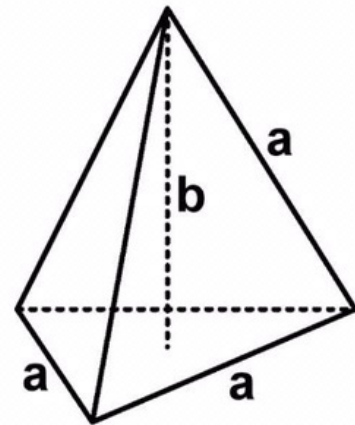
$$A = \frac{1}{2} nr^2 \sin\left(\frac{2\pi}{n}\right) = \frac{na}{2} \sqrt{r^2 - \left(\frac{a}{2}\right)^2}$$



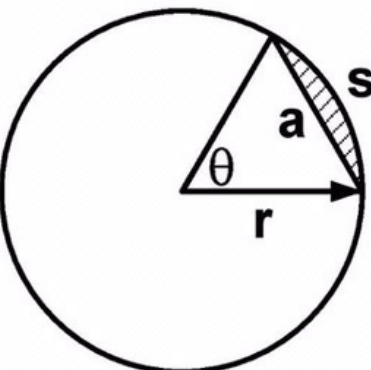
$$A = \text{Perimeter} \cdot a + 2A_{\text{base}}, V = A_{\text{base}} \cdot a$$



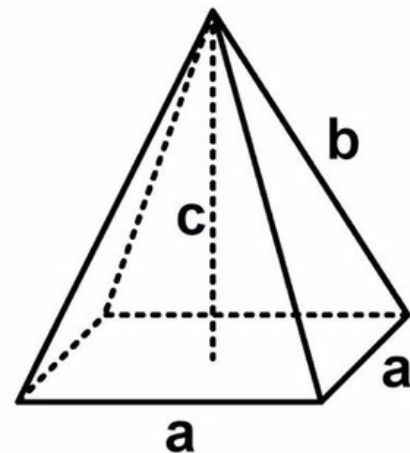
$$A = \frac{1}{2} rs = \frac{\theta}{360^\circ} \pi r^2$$



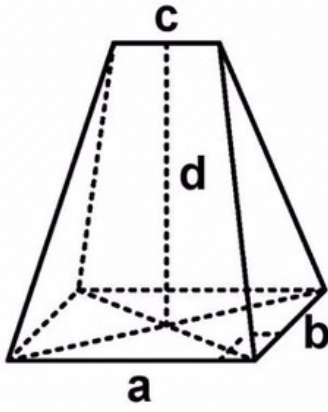
$$A = \sqrt{3} a^2, V = \frac{1}{3} A_{\text{base}} \cdot b = \frac{a^3}{6\sqrt{2}}$$



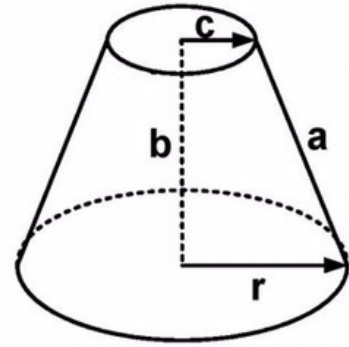
$$A = \frac{r^2}{2} \left(\frac{\theta\pi}{180^\circ} - \sin\theta \right)$$



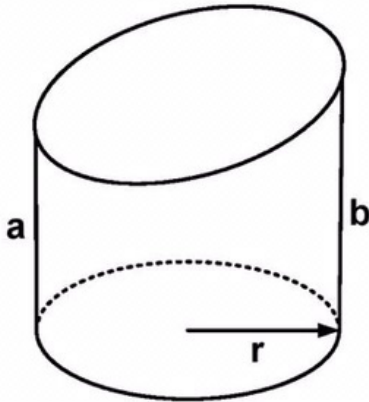
$$A = \frac{1}{4} na\sqrt{4b^2 - a^2} + A_{\text{base}}, V = \frac{1}{3} A_{\text{base}} \cdot c$$



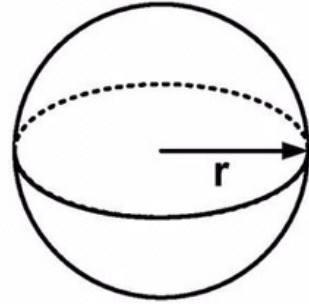
$$A = \frac{1}{2}(a+c)\sqrt{4d^2 + b^2} + \frac{b}{2}\sqrt{4d^2 + (a-c)^2} + ab, V = \frac{bd}{6}(2a+c)$$



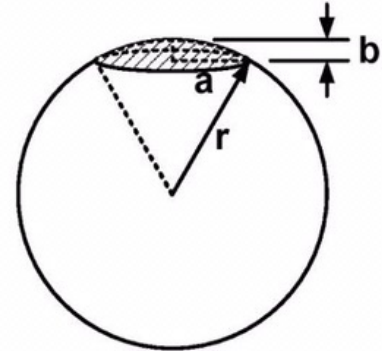
$$A = \pi(r^2 + c^2 + a(r+c)), V = \frac{\pi b}{3}(r^2 + rc + c^2)$$



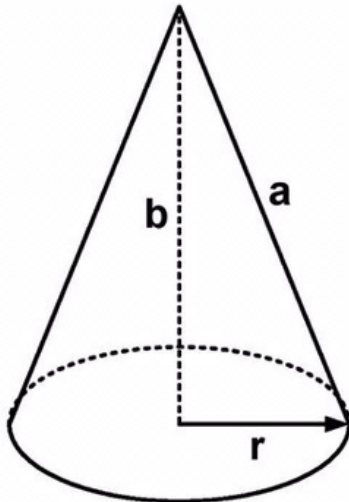
$$A = \pi r \left(a + b + r + \sqrt{r^2 + \left(\frac{b-a}{2}\right)^2} \right), V = \frac{\pi r^2}{2}(a+b)$$



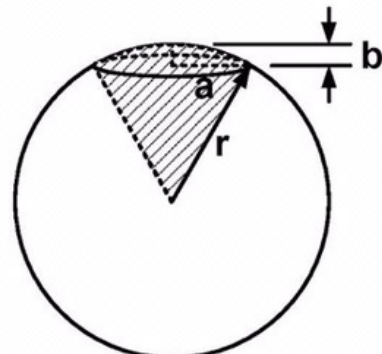
$$A = 4\pi r^2, V = \frac{4}{3}\pi r^3$$



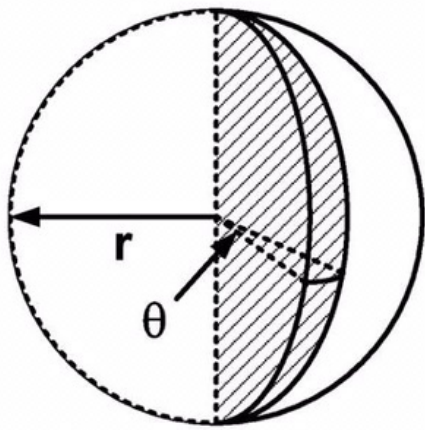
$$A = \pi(b^2 + 2a^2) = \pi(2rb + a^2), V = \frac{\pi}{3}b^2(3r - b) = \frac{\pi}{6}b(3a^2 + b^2)$$



$$A = \pi r(a+r), V = \frac{1}{3}\pi r^2 b$$



$$A = \pi r(2b+a), V = \frac{2}{3}\pi r^2 b$$



$$A = \pi r^2 + \frac{\theta}{90^\circ} \pi r^2, V = \frac{\theta}{270^\circ} \pi r^3$$

ระยะตั้งฉากจากจุด (x_1, y_1) ไปยังเส้นตรง

$$Ax + By + C = 0$$

$$d = \frac{|Ax_1 + By_1 + C|}{\sqrt{A^2 + B^2}}$$

ระยะตั้งฉากระหว่างเส้นตรงขนานกัน

$$d = \frac{|C_1 - C_2|}{\sqrt{A^2 + B^2}}$$

สมการผ่านจุดตัดเส้นตรง

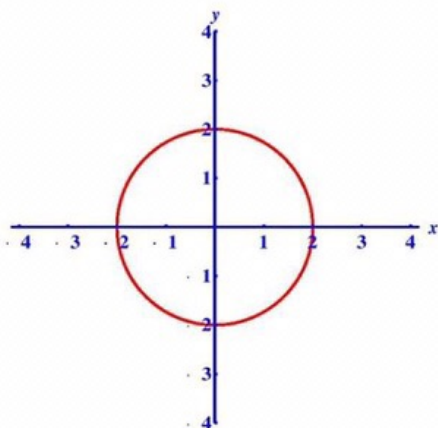
$$A_1x + B_1y + C_1 = k(A_2x + B_2y + C_2)$$

สมการเส้นตรงที่แบ่งครึ่งมุมของเส้นตรงตัดกัน

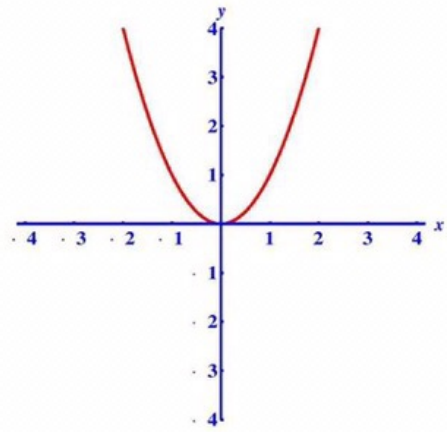
$$\frac{|A_1x + B_1y + C_1|}{\sqrt{A_1^2 + B_1^2}} = \frac{|A_2x + B_2y + C_2|}{\sqrt{A_2^2 + B_2^2}}$$

มุมระหว่างเส้นตรงตัดกัน

$$\tan \theta = \frac{m_2 - m_1}{1 + m_1 m_2}$$

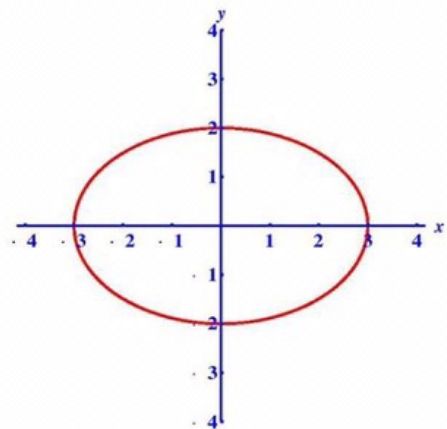


$$\text{วงกลม: } (x-h)^2 + (y-k)^2 = r^2$$



$$\text{พาราโบลา: } (y-k) = \frac{1}{4c}(x-h)^2$$

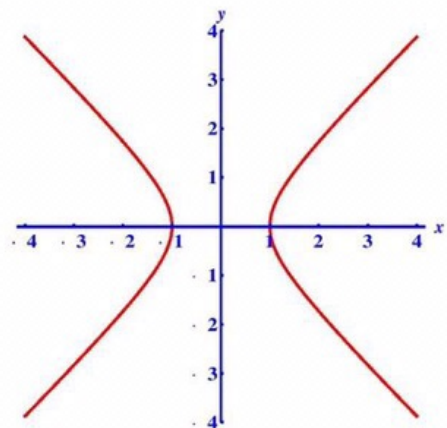
Focus $|c|$, Latus Rectum $|4c|$



$$\text{วงรี: } \frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

Focus $c^2 = a^2 - b^2$, Eccentricity c/a

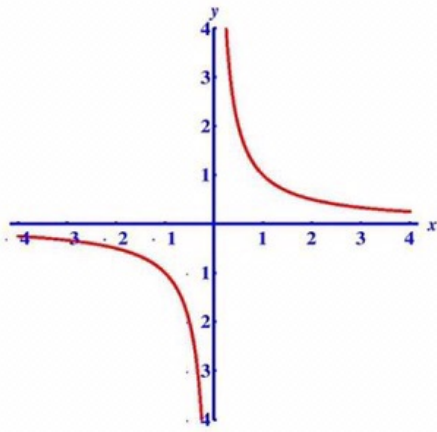
Latus Rectum $2b^2/a$



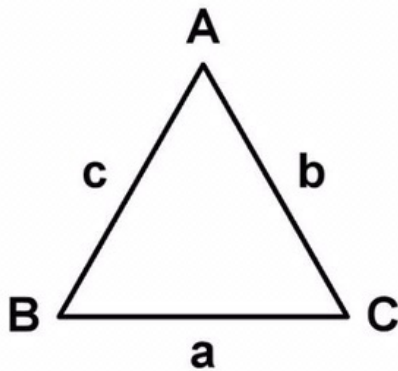
$$\text{ไฮเพอร์โบลา: } \frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$

Focus $c^2 = a^2 + b^2$, Eccentricity c/a

Latus Rectum $2b^2/a$



ไฮเปอร์โบลามุมฉาก: $(x-h)(y-k) = C$



Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Law of Cosines

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\sin^2 A + \cos^2 A = 1$$

$$\sec^2 A - \tan^2 A = 1$$

$$\operatorname{cosec}^2 A - \cot^2 A = 1$$

$$\sin(A+B) = \sin A \cos B + \cos A \sin B$$

$$\sin(A-B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A+B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A-B) = \cos A \cos B + \sin A \sin B$$

$$2 \sin A \cos B = \sin(A+B) + \sin(A-B)$$

$$2 \cos A \sin B = \sin(A+B) - \sin(A-B)$$

$$2 \cos A \cos B = \cos(A+B) + \cos(A-B)$$

$$2 \sin A \sin B = \cos(A-B) - \cos(A+B)$$

$$\sin A + \sin B = 2 \sin \left(\frac{A+B}{2} \right) \cos \left(\frac{A-B}{2} \right)$$

$$\sin A - \sin B = 2 \cos \left(\frac{A+B}{2} \right) \sin \left(\frac{A-B}{2} \right)$$

$$\cos A + \cos B = 2 \cos \left(\frac{A+B}{2} \right) \cos \left(\frac{A-B}{2} \right)$$

$$\cos A - \cos B = -2 \sin \left(\frac{A+B}{2} \right) \sin \left(\frac{A-B}{2} \right)$$

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$\cot(A \pm B) = \frac{\cot A \cot B \mp 1}{\cot B \pm \cot A}$$

$$\sin 2A = 2 \sin A \cos A = \frac{2 \tan A}{1 + \tan^2 A}$$

$$\begin{aligned} \cos 2A &= \cos^2 A - \sin^2 A = 2 \cos^2 A - 1 \\ &= 1 - 2 \sin^2 A = \frac{1 - \tan^2 A}{1 + \tan^2 A} \end{aligned}$$

$$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

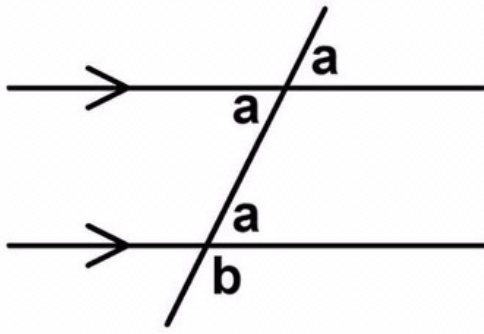
$$\cot 2A = \frac{\cot^2 A - 1}{2 \cot A}$$

$$\sin \frac{A}{2} = \pm \sqrt{\frac{1 - \cos A}{2}}$$

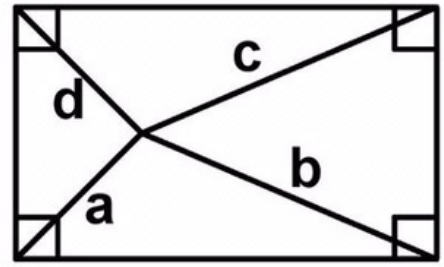
$$\cos \frac{A}{2} = \pm \sqrt{\frac{1 + \cos A}{2}}$$

$$\begin{aligned} \tan \frac{A}{2} &= \pm \sqrt{\frac{1 - \cos A}{1 + \cos A}} = \frac{\sin A}{1 + \cos A} \\ &= \frac{1 - \cos A}{\sin A} = \operatorname{cosec} A - \cot A \end{aligned}$$

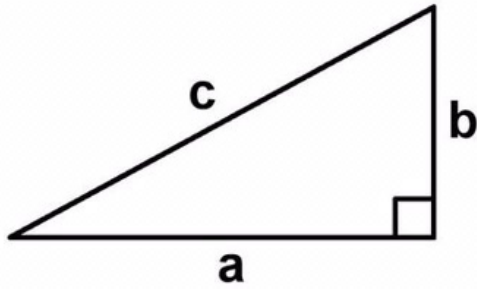
$$\begin{aligned} \cot \frac{A}{2} &= \pm \sqrt{\frac{1 + \cos A}{1 - \cos A}} = \frac{\sin A}{1 - \cos A} \\ &= \frac{1 + \cos A}{\sin A} = \operatorname{cosec} A + \cot A \end{aligned}$$



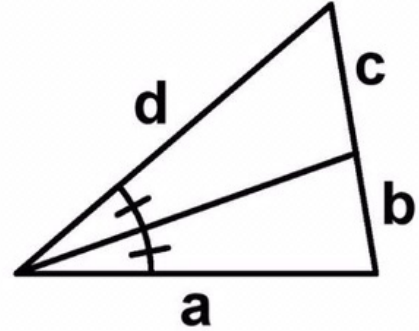
$$a + b = 180^\circ$$



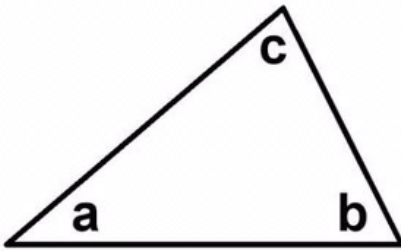
$$a^2 + c^2 = b^2 + d^2$$



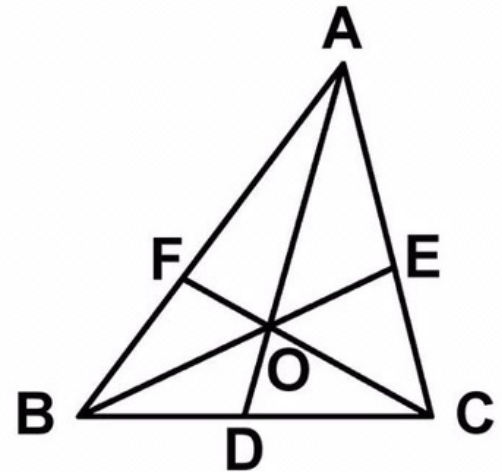
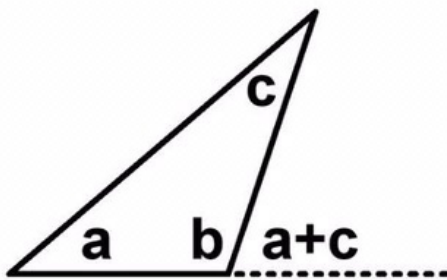
$$a^2 + b^2 = c^2$$



$$\frac{b}{a} = \frac{c}{d}$$

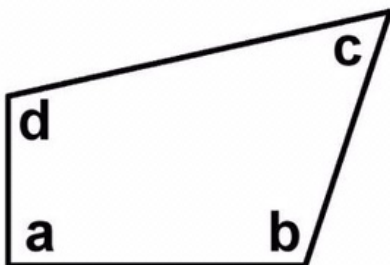


$$a + b + c = 180^\circ$$



$$\frac{AO}{OD} = \frac{AF}{FB} + \frac{AE}{EC},$$

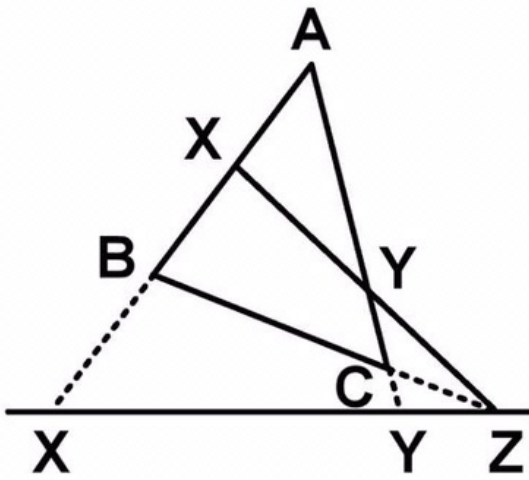
$$\frac{OD}{AD} + \frac{OE}{BE} + \frac{OF}{CF} = 1,$$



$$a + b + c + d = 360^\circ$$

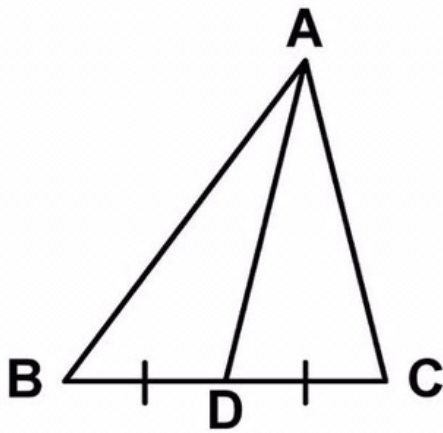
Ceva's Theorem

$$\frac{AF}{FB} \cdot \frac{BD}{DC} \cdot \frac{CE}{EA} = 1$$



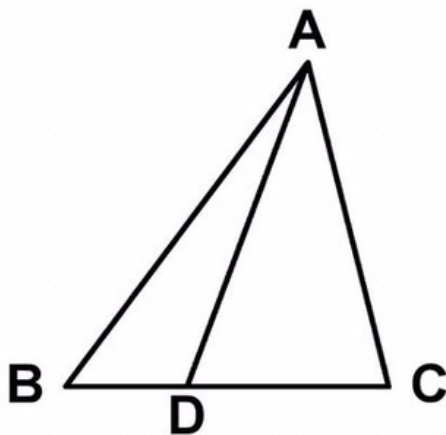
Menelaus's Theorem

$$\frac{BZ}{CZ} \cdot \frac{CY}{AY} \cdot \frac{AX}{BX} = 1$$



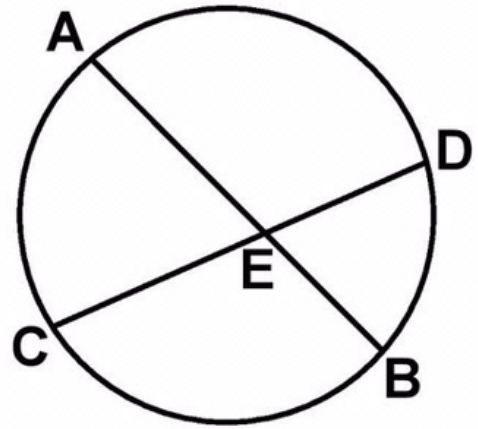
Pappus's Theorem

$$AB^2 + AC^2 = 2(AD^2 + BD^2)$$



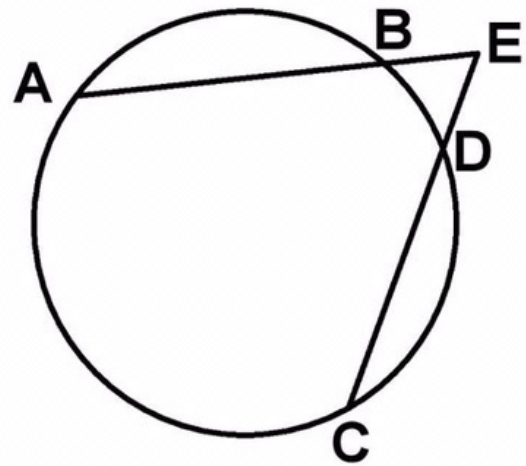
Stewart's Theorem

$$BC(AD^2 + BD \cdot DC) = DC \cdot AB^2 + BD \cdot AC^2$$



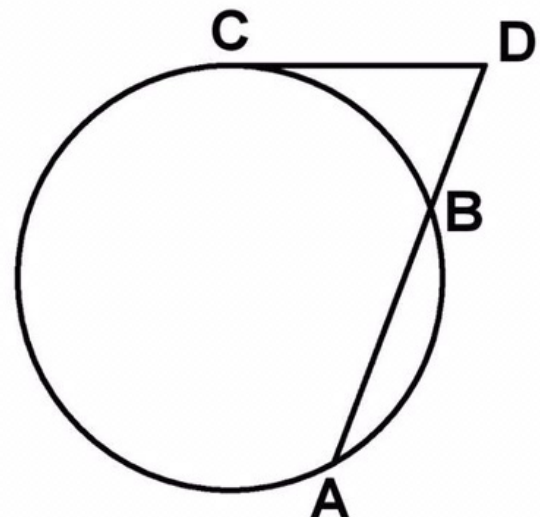
Power of Point

$$AE \cdot EB = CE \cdot ED$$



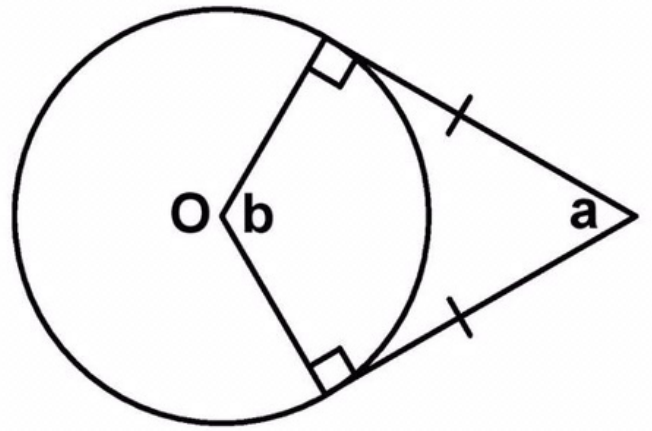
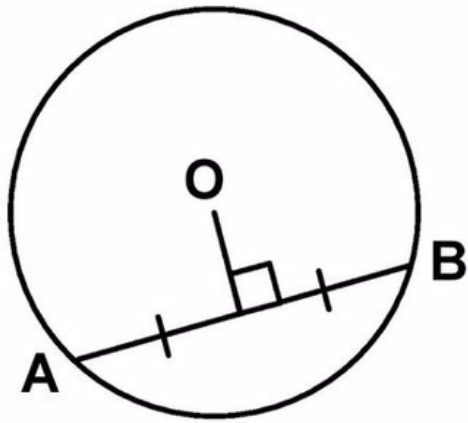
Power of Point

$$AE \cdot BE = CE \cdot DE$$

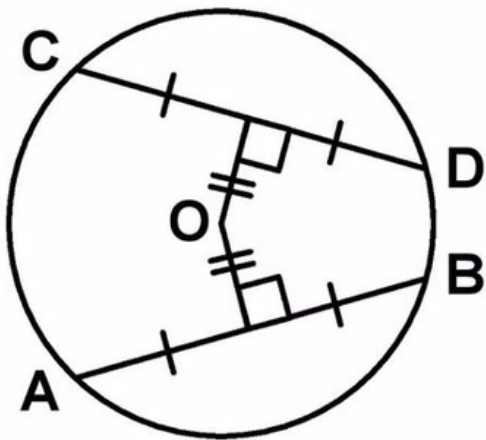


Power of Point

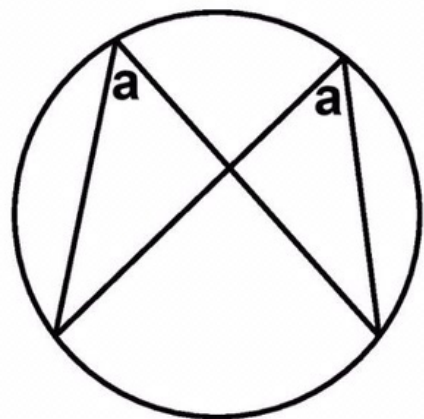
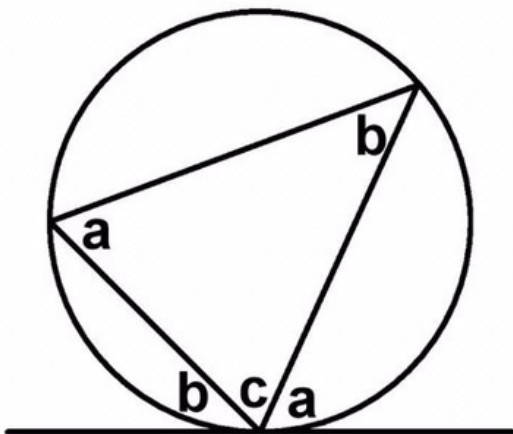
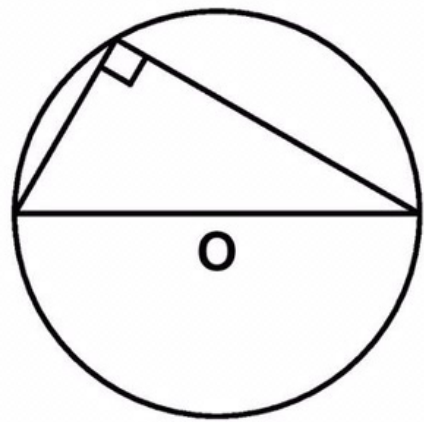
$$AD \cdot BD = CD^2$$

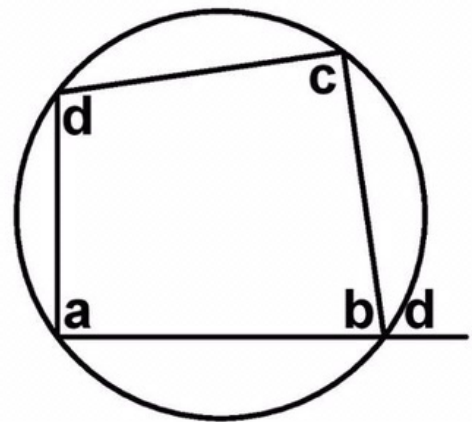
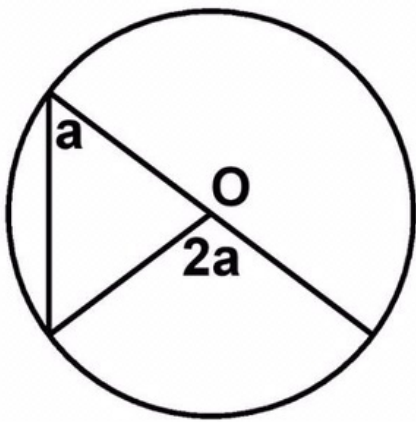
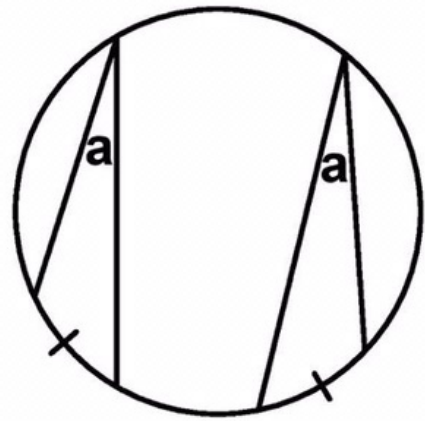
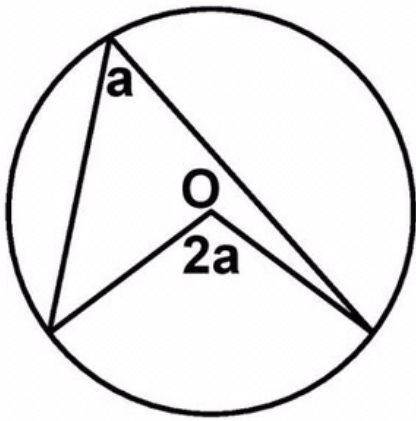


$a + b = 180^\circ$

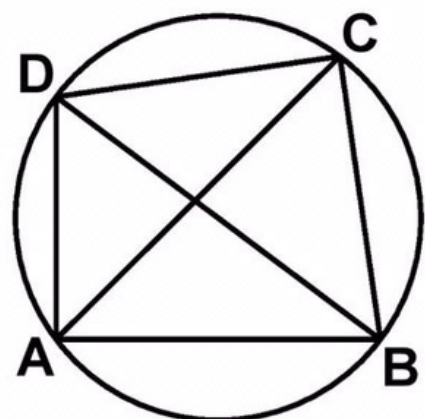
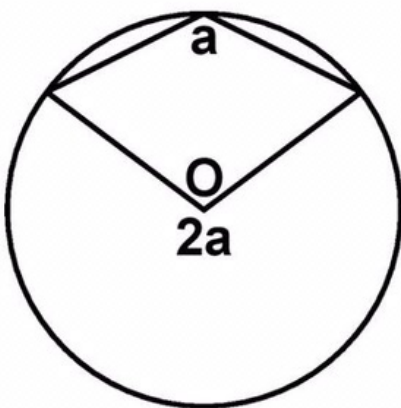


$AB = CD$



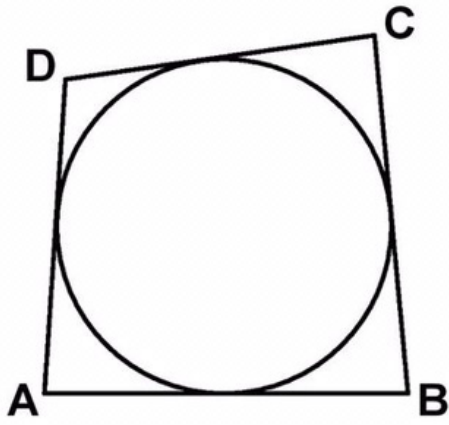


$$a + c = b + d = 180^\circ$$

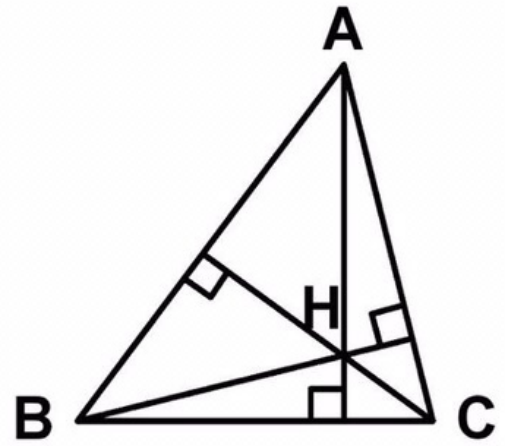


Ptolemy's Theorem

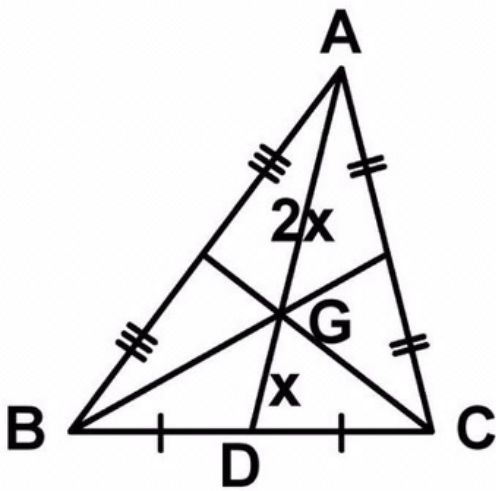
$$AC \cdot BD = AB \cdot CD + BC \cdot AD$$



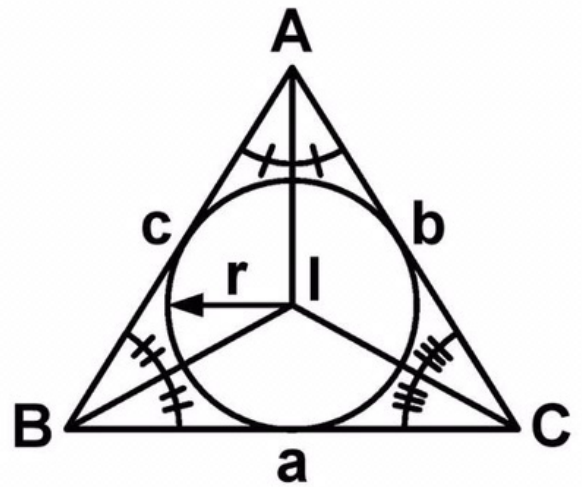
$$AB + CD = BC + AD$$



Orthocenter

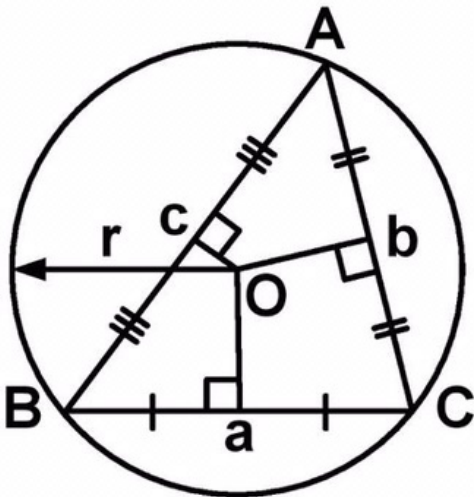


Centroid



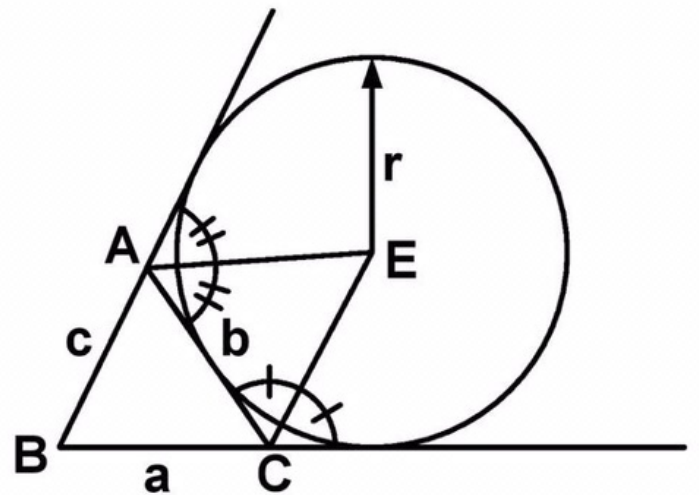
Incenter

$$r = \frac{2(\text{Area of } \triangle ABC)}{a+b+c}$$



Circumcenter

$$r = \frac{abc}{4(\text{Area of } \triangle ABC)}$$



Excenter

$$r = \frac{2(\text{Area of } \triangle ABC)}{a+c-b}$$

$$|a| \geq 0, |a| = 0 \leftrightarrow a = 0$$

$$|-a| = |a|, -|a| \leq a \leq |a|$$

$$|a+b| \leq |a| + |b|$$

$$|a-b| \geq ||a| - |b||$$

$$|ab| = |a| |b|$$

$$\left| \frac{a}{b} \right| = \frac{|a|}{|b|}$$

$$|a|^2 = a^2, \sqrt{a^2} = |a|$$

$$a|0, 1|a, a|a$$

$$a|1, a = \pm 1$$

ถ้า $a|b$ และ $b|c$ แล้ว $a|c$

ถ้า $a|b$ และ $c|d$ แล้ว $ac|bd$

ถ้า $a|(b+c)$ และ $a|b$ แล้ว $a|c$

$a|b$ และ $b|a$ ก็ต่อเมื่อ $a = \pm b$

ถ้า $a|b$ และ $b \neq 0$ แล้ว $|a| \leq |b|$

ถ้า $a|b$ และ $a|c$ แล้ว $a|(bx+cy)$

เมื่อ $x, y \in I$

$$a^m \cdot a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$(a \cdot b)^n = a^n \cdot b^n$$

$$a^0 = 1, a \neq 0$$

$$(a^m)^n = a^{mn}$$

$$a^{-n} = \frac{1}{a^n}, a \neq 0$$

$$\left(\frac{a}{b} \right)^n = \frac{a^n}{b^n}, b \neq 0$$

$\sqrt[n]{x^n} = |x|$ เมื่อ n เป็นจำนวนคู่

$\sqrt[n]{x^n} = x$ เมื่อ n เป็นจำนวนคี่

ถ้า $a > 1; a^m > a^n \rightarrow m > n$

ถ้า $0 < a < 1; a^m > a^n \rightarrow m < n$

$$(x+y)^2 = x^2 + 2xy + y^2$$

$$(x+y)^3 = x^3 + 3x^2y + 3xy^2 + y^3$$

$$(x+y)^4 = x^4 + 4x^3y + 6x^2y^2 + 4xy^3 + y^4$$

$$(x+y)^5 = x^5 + 5x^4y + 10x^3y^2 + 10x^2y^3 + 5xy^4 + y^5$$

$$(x+y)^6 = x^6 + 6x^5y + 15x^4y^2 + 20x^3y^3 + 15x^2y^4 + 6xy^5 + y^6$$

$$(x-y)^2 = x^2 - 2xy + y^2$$

$$(x-y)^3 = x^3 - 3x^2y + 3xy^2 - y^3$$

$$(x-y)^4 = x^4 - 4x^3y + 6x^2y^2 - 4xy^3 + y^4$$

$$(x-y)^5 = x^5 - 5x^4y + 10x^3y^2 - 10x^2y^3 + 5xy^4 - y^5$$

$$(x-y)^6 = x^6 - 6x^5y + 15x^4y^2 - 20x^3y^3 + 15x^2y^4 - 6xy^5 + y^6$$

$$\begin{aligned} x^2 + y^2 &= (x+y)^2 - 2xy \\ &= (x-y)^2 + 2xy \end{aligned}$$

$$x^3 + y^3 = (x+y)(x^2 - xy + y^2)$$

$$x^4 + y^4 = ((x+y)^2 - 2xy)^2 - 2x^2y^2$$

$$x^5 + y^5 = (x+y)(x^4 - x^3y + x^2y^2 - xy^3 + y^4)$$

$$x^6 + y^6 = (x^2 + y^2)(x^4 - x^2y^2 + y^4)$$

$$x^2 - y^2 = (x+y)(x-y)$$

$$x^3 - y^3 = (x - y)(x^2 + xy + y^2)$$

$$x^4 - y^4 = (x - y)(x^3 + x^2y + xy^2 + y^3) \\ = (x + y)(x - y)(x^2 + y^2)$$

$$x^5 - y^5 = (x - y)(x^4 + x^3y + x^2y^2 + xy^3 + y^4)$$

$$x^6 - y^6 = (x - y)(x^5 + x^4y + x^3y^2 + x^2y^3 + xy^4 + y^5) \\ = (x^2 - y^2)(x^4 + x^2y^2 + y^4) \\ = (x + y)(x - y)(x^2 + xy + y^2) \\ (x^2 - xy + y^2)$$

$$(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$$

$$(x + y - z)^2 = x^2 + y^2 + z^2 + 2(xy - yz - zx)$$

$$(x - y - z)^2 = x^2 + y^2 + z^2 + 2(-xy + yz - zx)$$

$$(x + y + z)^3 = x^3 + y^3 + z^3 + 3(x + y)(y + z)(z + x)$$

$$x^2 + y^2 + z^2 = (x + y + z)^2 - 2(xy + yz + zx)$$

$$x^3 + y^3 + z^3 - 3xyz = (x + y + z) \\ (x^2 + y^2 + z^2 - (xy + yz + zx)) \\ = \frac{1}{2}(x + y + z)$$

$$((x - y)^2 + (y - z)^2 + (z - x)^2)$$

$$\frac{x^2 + y^2 + z^2}{2} \cdot \frac{x^3 + y^3 + z^3}{3} =$$

$$\frac{x^5 + y^5 + z^5}{5}, x + y + z = 0$$

$$x^4 + x^2 + 1 = (x^2 + x + 1)(x^2 - x + 1)$$

$$x^4 + x^2y^2 + y^4 = (x^2 + xy + y^2) \\ (x^2 - xy + y^2)$$

$$(w^2 + x^2)(y^2 + z^2) =$$

$$(xy + wz)^2 + (wy - xz)^2$$

$$(x + y)(y + z)(z + x) = (x + y + z) \\ (xy + yz + zx) - xyz$$

$$(x - y)(y - z)(z - x) = x^2(z - y) + y^2(x - z) + z^2(y - x)$$

$$(x - y)(y - z)(z - x)(x + y + z) = x^3(z - y) + y^3(x - z) + z^3(y - x)$$

$$(x + y)(y + z)(z + x)(x - y)(y - z)(z - x) \\ = x^2y^2(y^2 - x^2) + y^2z^2(z^2 - y^2) + z^2x^2(x^2 - z^2)$$

$$(x + y + z)(x + y - z)(y + z - x)(z + x - y) \\ = 2(x^2y^2 + y^2z^2 + z^2x^2) - (x^4 + y^4 + z^4)$$

$$(x_1^2 + x_2^2 + x_3^2 + x_4^2)(y_1^2 + y_2^2 + y_3^2 + y_4^2) = \\ (x_1y_1 + x_2y_2 + x_3y_3 + x_4y_4)^2 + \\ (x_1y_2 - x_2y_1 + x_3y_4 - x_4y_3)^2 + \\ (x_1y_3 - x_2y_4 - x_3y_1 + x_4y_2)^2 + \\ (x_1y_4 + x_2y_3 - x_3y_2 - x_4y_1)^2$$

$$(w^2 + x^2 + y^2 + z^2)^2 = (w^2 + x^2 - y^2 - z^2)^2 + \\ (2wy + 2xz)^2 + (2wz - 2xy)^2$$

สมการพหุนามกำลังสอง

$$ax^2 + bx + c = 0$$

ผลคูณคำตอบคือ $\frac{c}{a}$

ผลบวกคำตอบ $-\frac{b}{a}$

ผลบวกคำตอบยกกำลังสอง $\frac{b^2 - 2ac}{a^2}$

ผลบวกคำตอบยกกำลังสาม $\frac{-(b^3 - 3abc)}{a^3}$

ผลบวกคำตอบยกกำลังสี่ $\frac{b^4 - 4ab^2c + 2a^2c^2}{a^4}$

ผลบวกคำตอบยกกำลังลบหนึ่ง $-\frac{b}{c}$

ผลบวกคำตอบยกกำลังลบสอง $\frac{b^2 - 2ac}{c^2}$

สมการพหุนามกำลังสาม

$$ax^3 + bx^2 + cx + d = 0$$

ผลคูณคำตอบคือ $-\frac{d}{a}$

ผลบวกคำตอบ $-\frac{b}{a}$

ผลบวกคำตอบยกกำลังสอง $\frac{b^2 - 2ac}{a^2}$

ผลบวกคำตอบยกกำลังสาม

$$\frac{-(b^3 - 3abc + 3a^2d)}{a^3}$$

ผลบวกคำตอบยกกำลังสี่

$$\frac{b^4 - 4ab^2c + 2a^2c^2 + 4a^2bd}{a^4}$$

ผลบวกคำตอบยกกำลังลบหนึ่ง $-\frac{c}{d}$

ผลบวกคำตอบยกกำลังลบสอง $\frac{c^2 - 2bd}{d^2}$

สมการพหุนามกำลังสี่

$$ax^4 + bx^3 + cx^2 + dx + e = 0$$

ผลคูณคำตอบคือ $\frac{e}{a}$

ผลบวกคำตอบ $-\frac{b}{a}$

ผลบวกคำตอบยกกำลังสอง $\frac{b^2 - 2ac}{a^2}$

ผลบวกคำตอบยกกำลังสาม

$$\frac{-(b^3 - 3abc + 3a^2d)}{a^3}$$

ผลบวกคำตอบยกกำลังสี่

$$\frac{b^4 - 4ab^2c + 2a^2c^2 + 4a^2bd}{a^4}$$

ผลบวกคำตอบยกกำลังลบหนึ่ง $-\frac{d}{e}$

ผลบวกคำตอบยกกำลังลบสอง $\frac{d^2 - 2ce}{e^2}$

ลำดับเลขคณิต $a_n = a_1 + (n-1)d$

อนุกรมเลขคณิต $S_n = \frac{n}{2}(2a_1 + (n-1)d)$

ลำดับเรขาคณิต $a_n = a_1 \cdot r^{n-1}$

อนุกรมเรขาคณิต $S_n = a_1 \frac{(1-r^n)}{1-r}, r \neq 1$

$$\sum_{i=1}^n i = \frac{n}{2}(n+1)$$

$$\sum_{i=1}^n i^2 = \frac{n}{6}(n+1)(2n+1) = \frac{n^3}{3} + \frac{n^2}{2} + \frac{n}{6}$$

$$\sum_{i=1}^n i^3 = \left(\frac{n}{2}(n+1)\right)^2$$

$$P_{n,n} = n!$$

$$P_{n,r} = \frac{n!}{(n-r)!}$$

เรียงสับเปลี่ยนแบบวงกลม $(n-1)!$

เรียงสับเปลี่ยนซ้ำ $\frac{n!}{n_1!n_2!\dots n_k!}$

แบ่งกลุ่มซ้ำ $\frac{n!}{n_1!n_2!\dots n_k!m_1!m_2!\dots m_l!}$

เมื่อ m_i คือจำนวนกลุ่มที่ซ้ำกันในแต่ละกลุ่มทำงานที่แตกต่างกัน

$$C_{n,r} = \frac{n!}{(n-r)!r!}$$

$$\binom{n}{r} = \binom{n}{n-r}$$

$$\binom{n}{r-1} + \binom{n}{r} = \binom{n+1}{r}$$

$$\binom{n}{1} + \binom{n}{2} + \dots + \binom{n}{n} = 2^n - 1$$

$$\binom{r}{r} + \binom{r+1}{r} + \dots + \binom{n}{r} = \binom{n+1}{r+1}$$

แบ่งของได้อย่างน้อยคนละ 1 ชิ้น

$$C_{n-1,r-1}$$

แบ่งของ โดยไม่มีเงื่อนไข

$$C_{n+r-1,r-1}$$

$$P(E) = \frac{n(E)}{n(S)}$$

ทำซ้ำ n ครั้ง สำเร็จ r ครั้ง

$$P = \binom{n}{r} p^r q^{n-r}$$

ค่าเฉลี่ยเลขคณิต (Mean) $\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$

ค่าเฉลี่ยเลขคณิต (Mean) $\bar{x} = \frac{\sum_{i=1}^n f_i x_i}{N}$

มัธยฐาน (Median) $= L + \left(\frac{\frac{N}{2} - \sum f_L}{f_M} \right) I$

(ถ้าไม่แจกแจงความถี่ใช้ $\frac{(N+1)}{2}$)

ฐานนิยม (Mode) $= L + \left(\frac{d_1}{d_1 + d_2} \right) I$

$$G.M. = \sqrt[N]{x_1 \cdot x_2 \cdot \dots \cdot x_N}$$

$$H.M. = \frac{1}{\frac{1}{N} \left(\frac{1}{x_1} + \frac{1}{x_2} + \dots + \frac{1}{x_N} \right)}$$

ค่ากึ่งกลางพิสัย $= \frac{x_{\max} + x_{\min}}{2}$

พิสัย $= x_{\max} - x_{\min}$

$$P_r = L + \left(\frac{\frac{rN}{100} - \sum f_L}{f_{P_r}} \right) I$$

$$S.D. = \sqrt{\frac{\sum_{i=1}^N (x_i - \bar{x})^2}{N}}$$

$$= \sqrt{\frac{\sum_{i=1}^N x_i^2}{N} - \bar{x}^2}$$

ความแปรปรวน (Variance) $= (S.D.)^2$

ค่ามาตรฐาน $z = \frac{x - \bar{x}}{S.D.}$