

Numbers, symbols and equations

1. Numbers

- ✓ Cardinal numbers : one, two, three, four,.....
- ✓ Ordinal numbers : first, second, third,
- ✓ Odd numbers (numbers impaires) : 1, 3, 5, 7,.....
- ✓ Even numbers (numbers paires) : 2, 4, 6, 8,.....
- ✓ 0 zero or naught exp : x_0 : x naught

2. Symboles

- ✓ Addition : the result of this operation is the sum.
+ : plus. exp : $a+b$: a plus b.
- ✓ Soustraction : the result of this operation is the difference.
- : minus. exp : $a-b$: a minus b.
- ✓ Multiplication : the result of this operation is the product.
x : multiplied or times. exp : axb : a times b or directly
ab
- ✓ Division : the result of this operation is the quotient.
/ : divided or over. exp : a/b : a over b.
- ✓ = :equal. exp : $a=b$: a equal to b.
- ✓ >:greater. exp : $a > b$: a is greater than b.
 $a \geq b$: a is greater or equal to b.
- ✓ < : less. exp : $a < b$: a is less than b.
 $a \leq b$: a is less or equal to b.
- ✓ \neq : different. exp : $a \neq b$: a is different from b.
- ✓ \sim : approximately. exp : $a \sim b$: a is approximately b.
- ✓ () : brackets. exp : $(a+b)$: a plus b between brackets.
- ✓ [] : Square brackets. exp : $[a+b]$: a plus b between square brackets.
- ✓ % : Percent

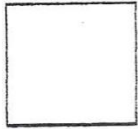
- ✓ ∞ : infinity
- ✓ $\sqrt{\quad}$: Square root or root. exp : \sqrt{a} : the square root of a or root of a.
- ✓ $\sqrt[3]{\quad}$: cube root. exp : $\sqrt[3]{a}$: the cube root of a.
- ✓ $\sqrt[4]{\quad}$: fourth root. exp : $\sqrt[4]{a}$: the fourth root of a.
- ✓ a' : a prime
- ✓ a'' : a double prime.
- ✓ \int : integral. exp : $\int a$: integral of a.
- ✓ a^b . exp : a to the power of b.
- ✓ a^{-b} . exp : a to the power of minus b.

3. Equations

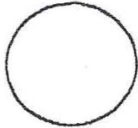
- ✓ $x = \frac{a+b}{c}$: x equals a plus b all over c.
- ✓ $x = a + (b-c) d$: x equals a plus b minus c between brackets times d.
- ✓ $x^{-p} = \frac{1}{x^p}$: x to the power minus p equals one over x to the power of p.
- ✓ $b^2 = a^2(1 - e)^2$: b squared equals a squared times one minus e between brackets squared.
- ✓ $F(x) = x^2$: F of x equals x squared or x to the power of two.
- ✓ $F(x) = x^3$: F of x equals x cube or x to the power of three.
- ✓ $F(x) = x^5$: F of x equals x to the power of five or x to the fifth.
- ✓ $F = m.a$: F equals m a : force is the mass times the acceleration.
- ✓ $W = F.d$: W equals Fd : work is the force times the distance.
- ✓ $P = \rho . g . h$: P equals $\rho . g . h$: pressure is the density times the gravity times the height.
- ✓ $PV = n.R.T$: P times V equals n times R times T : the pressure times the volume equals the number of mols times the constant R times the temperature.
- ✓ $v = d/t$: v equals d over t : the speed is the distance over the time.
- ✓ $E = \frac{m.v^2}{2}$: E equals m times v squared all over 2 : the energy is the mass times the speed squared all over two.

✓ $W = p \cdot t$: work equals p times t : work is the electrical power times the time.

4. Shapes



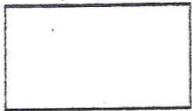
SQUARE



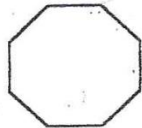
CIRCLE/
SPHERE



ELLIPSE



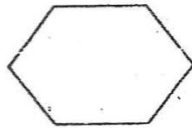
RECTANGLE



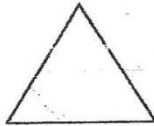
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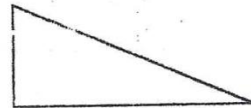
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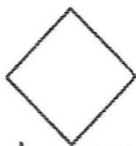
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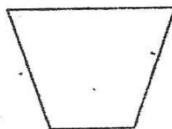
EQUILATERAL
TRIANGLE



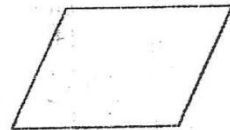
TRIANGLE
RECTANGLE



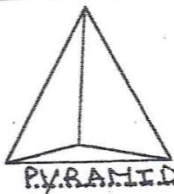
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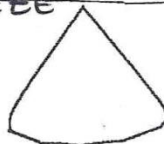
TRAPEZIUM
TRAPEZE



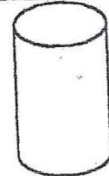
PARALLELOGRAM



PYRAMID



SECTOR OF CIRCLE



CYLINDER



CONE



HEMISPHERE