Better Than a
Private Tutor

Matisto's Subjects

Algebra

1. Negative numbers

Subject	Example
Number axis	*x = 2.5*
Order on axis	*–3 < –2*
Sum on axis	*5 + (–3)*
Actions: + and –	*–1 – (–2) + 6*
Actions: * and :	*(–2) * (–2)*
Notion of power	2^7

2. Polynomials

Subject	Example
Multiplying terms I	*12*(7M + 8)*
Multiplying terms II	*(X + 3)*(X – 5)*
Combining like terms	*13M + 7M – 12M + 8M*
Combining like terms II	*(–11 + 9X)+6X*
Algebraic Expressions	*(A + 8)*(A – 8)*
Algebraic Expressions II	$(–A + 5)^2$
Dividing terms	$(–110X + 176Y^2)/11$
Common Factor	*15X + 9*

3. Simple Equations

Subject	Example
Guessing	*3x+5=17*
Simple Equation	*8X–5=27*
Simple Equation II	*5*(2X + 4) = 4X+44*
Fractions	*2x/3 = 3x-2/4*

4. Equations System

Subject	Example
Equation Systems - Graphical	*5x+2y–10=0 ; 7=y+3x*
Equation Systems - Substitution	
Equation Systems - Elimination	

5. Quadratic Equations

Subject	Example
Quadratic Equations	$X^2–7X+12=0$
Quadratic Equations – parenthesis	*4X – 16 = X*(–4 + X)*
Quadratic Equations – Multiple Paren	*(2X + 2)*(2X + 2) = 3X*(4 + X)*
Quadratic Equation Systems	$–16X+16=4Y; -92=4X^2+48X+Y$

6. Inequalities

Subject	Example
Linear inequalities	*8X+13≤–75*
Linear inequalities 2	*3*(2X+4)≥3X+24*
Double Inequalities	*13≤2X+3≤19*
Polynomial Inequalities	*(1+X)(x–3)(X+7)≥0*

7. Powers

Subject	Example
Powers 1	$x^2x^3=...$
Powers 2	$(x^2)^3=...$
Powers 3	$(xy)^2=...$

8. Word Problems

Subject
2 Numbers
Buying Problems
Percentage
Rectangles and Squares
Pythagoras
Circles
Cylinder
Cartesian Geometry

Geometry

Subject	Example
Positioning	*(–2.5 , –10)*
XY Coordinates	*X=4, y=6*
Middle Point	*A (1 , 3), B (5 , 7)*
Linear Equation Graph	*y = mx + n*
Intersections	*Y = X – 4*
m + point	*A (5 , 5), m=4*
Two points	*A (2 , 3), A (2 , 3)*
Line + points	*A (2, 5), A (5, 8), C (7 , 3)*
Parabola	$Y=-X^2+8X-15$

Trigonometry

Subject	Example
Sinus	*AB = 18, AC = 7, SINα=?*
Cosines	*AB = 19, AC = 10, COSα=?*
Perpendicular	*AB = 199.38, α= 67°, AC=?*
Tangent	*AC = 8, BC = 14, Tg α=?*
Angle	*AC = 220, BC = 240, α=?*
Triangle Area	*AC = 8, BC = 14, α=90°, S=?*

Probability

Subject
Basic probability
Basic techniques
Tables and probability
Multiplication of probabilities