

WRITING ACADEMIC TOURNAMENT QUESTIONS

MATHEMATICS

SUGGESTED TOPICS	5-point	10-point	15-point	TEAM	Notes
Linear equations					
field properties					
systems					
solving					
inequalities					
compound inequalities					
absolute value					
word problems					
graphing					
standard form					
slope-intercept form					
point-slope form					
intercept form					
Quadratic equations					
factoring					
quadratic formula					
completing the square					
inequalities					
graphing					
systems					
discriminant					
sum/product					
Relations					
functions					
domain					
range					
composition					
inverse					
Polynomials					
simplify					
operations					
factoring					
fundamental theorem					
remainder theorem					
factor theorem					
synthetic division					
graphing					
zeros					
Rational expressions					
simplify					
domain					
range					
operations					
holes/asymptotes					
graphing					

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SUGGESTED TOPICS	5-point	10-point	15-point	TEAM	Notes
Exponential/logarithms					
simplify					
convert					
radical					
equations					
graphing					
Complex numbers					
operations					
graphing					
polar form					
DeMoivre's theorem					
Conics					
locus definitions					
circle					
parabola					
ellipse					
hyperbola					
eccentricity					
polar form					
invariant					
Probability/statistics					
counting					
probability/odds					
binomial theorem					
statistics					
Sequences/series					
arithmetic					
geometric					
infinite					
sum					
specific term					
convergence					
Matrices					
operations					
determinants					
inverse					
Cramer's rule					
Vectors					
operations					
unit vectors					

