Nar	me: Team:
acco	ections: You have 30 minutes to complete these 3 problems. All answers must be written in ordance with the conventions on the Conventions page on the MMM website. Write all of your wers on the this sheet. You may only use scratch paper provided by the MMM. No calculators wed. Please remember to check your work!
	For x and y integers with absolute value at most 20 where $y^2 + 2xy - 2x = 1$ , find the sum of the absolute values of the distinct possible values for y.
	1
	Compute the number of ways to tile a $3 \times 12$ grid with L-trominoes ( <b>not</b> tetrominos). (An L-tromino is three squares in an L- or corner-ey shape.)
	2
	Jerry flips a coin until he gets 3 heads in a row. What is the expected number of heads which he flips?
	3