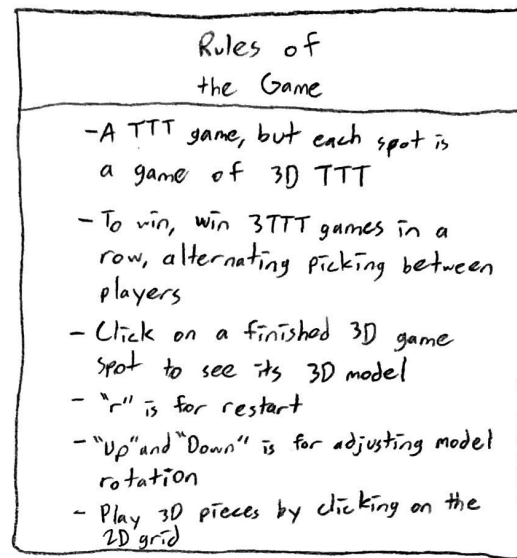
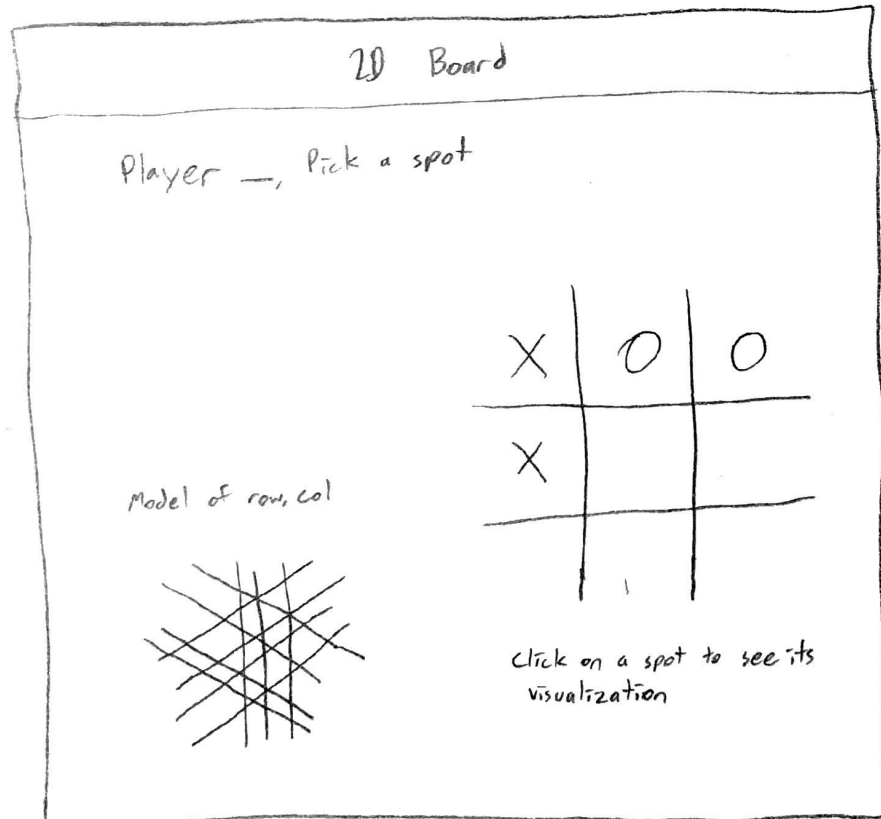


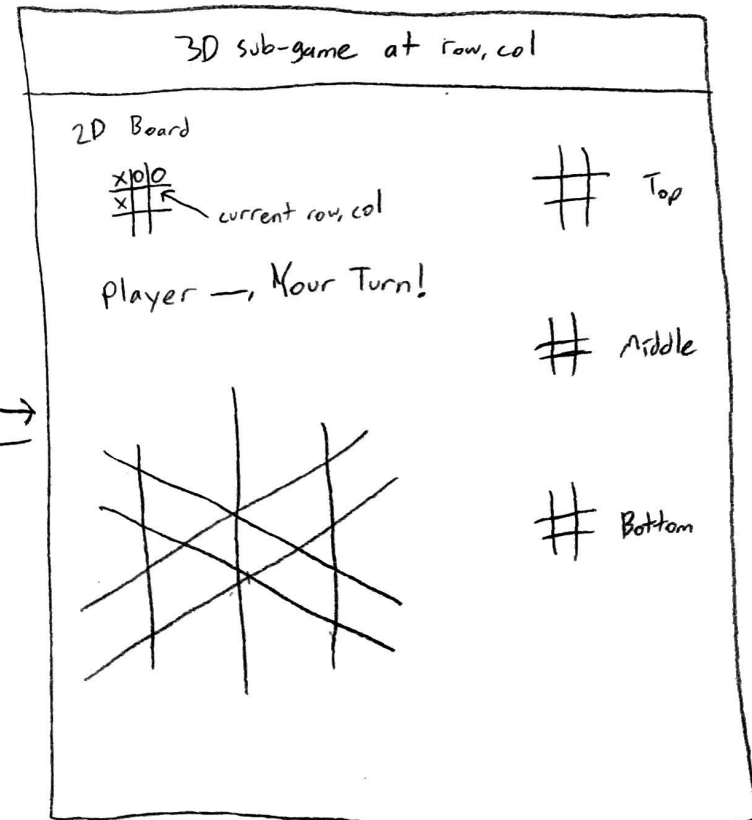
"start"



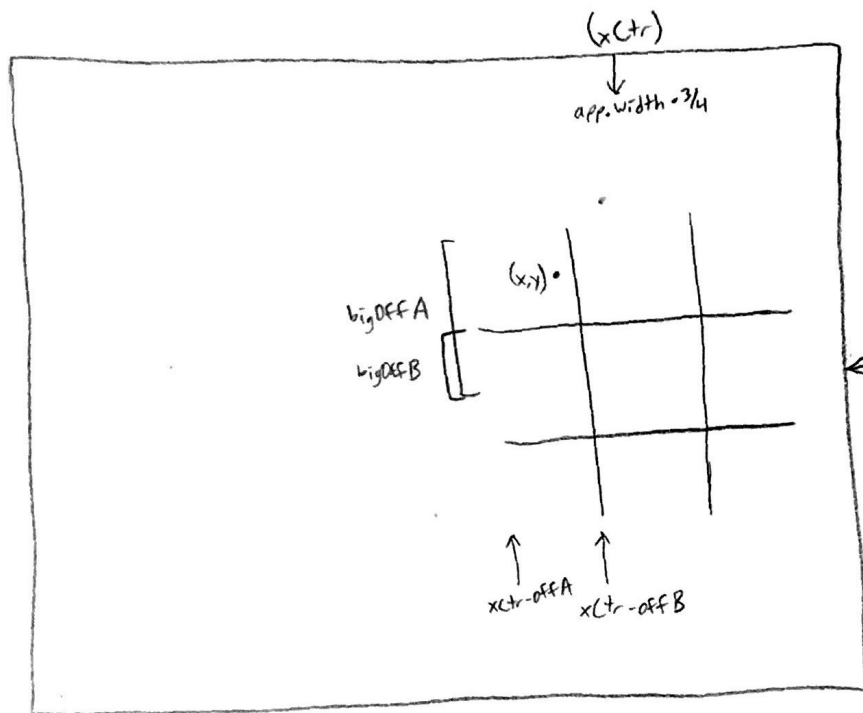
"rules"

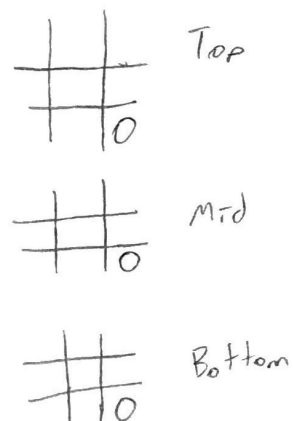
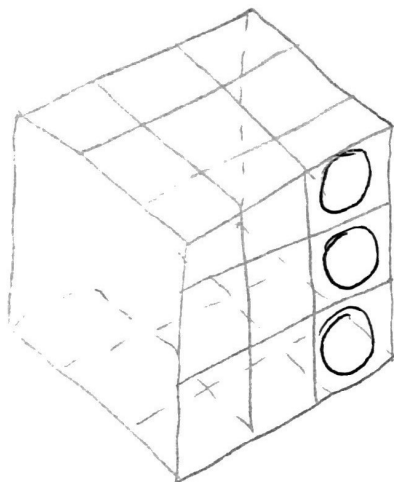
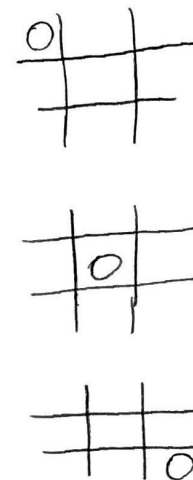
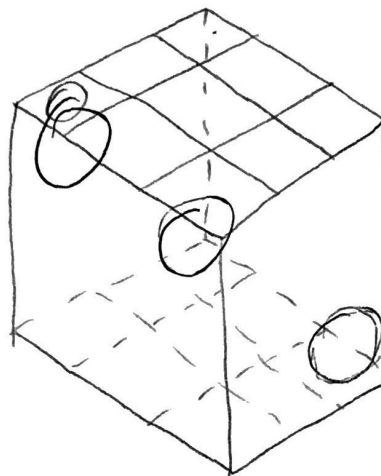
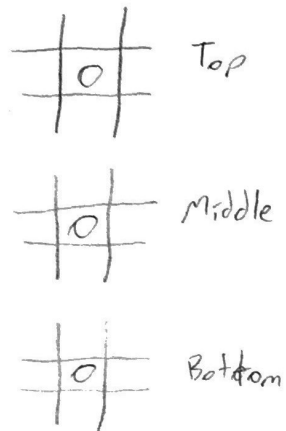
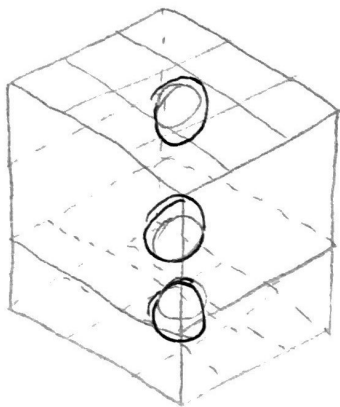


"square"



"Cube"





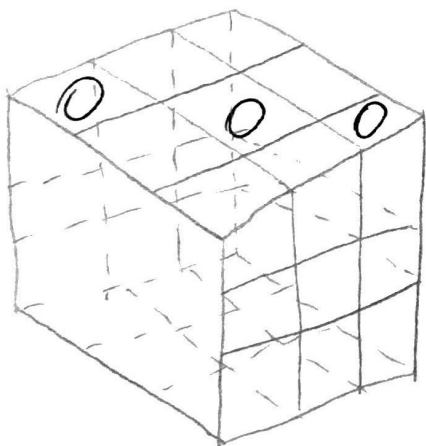
Finding Win

1	X	2	X	1
4		5		4
	X		X	
1	X	2		1

~~Only need to check opposite side~~

~~check only middle pieces (all but corners + middle)~~

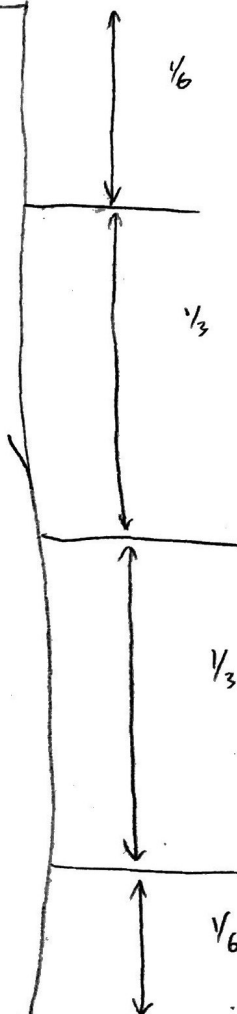
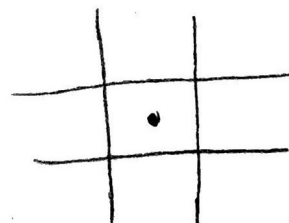
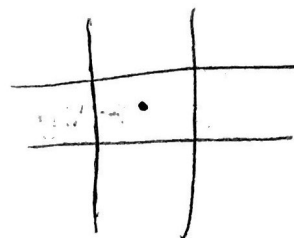
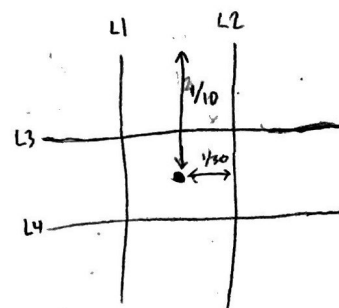
X's indicate all positions needed to check for a win

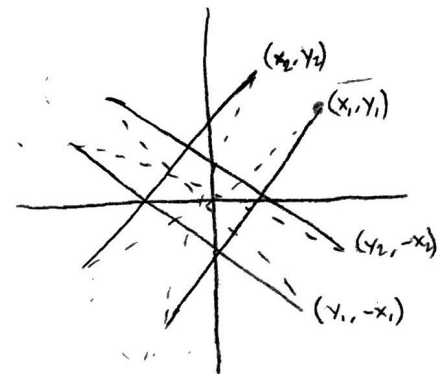
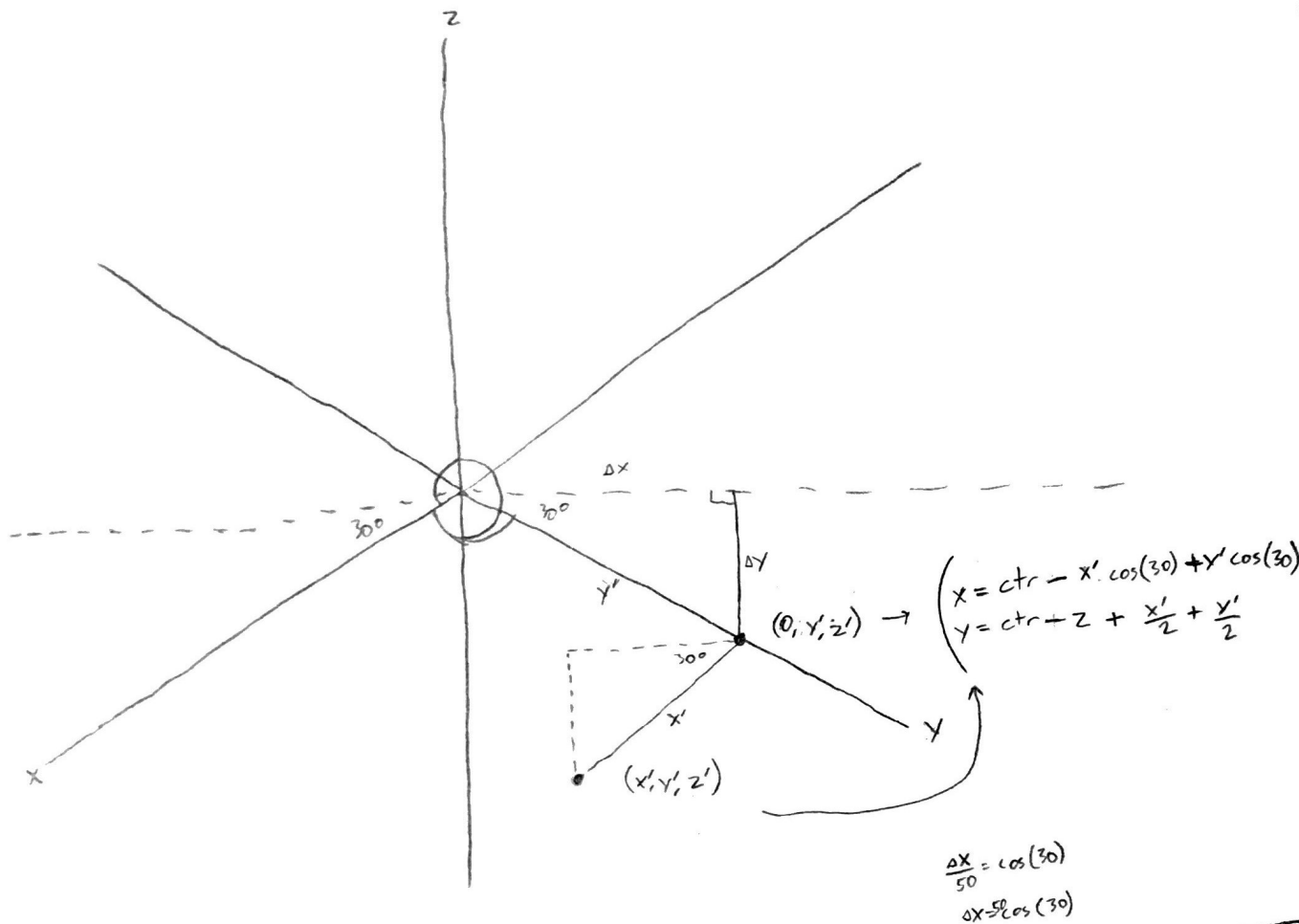


6	X	7	X	6
8				8
	X			
6	X	7		6

← Only check in plane for grid=1

1		2		1	X
4		5		4	X
1		2	X	1	X





	<u>z</u>	<u>-z</u>
1 List	$\begin{bmatrix} (x_1, y_1) \leftrightarrow (-x_2, -y_2) \\ (-x_1, -y_1) \leftrightarrow (x_2, y_2) \end{bmatrix}$	Repeat
1 List	$\begin{bmatrix} (y_1, -x_1) \leftrightarrow (-y_2, x_2) \\ (-y_1, x_1) \leftrightarrow (y_2, -x_2) \end{bmatrix}$	

