## **2D Transformation Cheatsheet**

1. Translation		
Formula:		
Matrix Form:		
2. Scaling		
Formula:		
Matrix Form:		
3. Rotation		
Formula (angle $\theta$ ):		
Matrix Form:		
4. Shearing		
X-shear:		
Y-shear:		
Matrix (X):		
Matrix (Y):		

5. Reflection

Across X-axis: