Day 8 - July 19, 2012

- Graph and shade the triangle connecting the points A = (0,0), B = (1,0), and C = (1,2).
- Convert the matrix definition in you r transformation to the usual function notation.
- Apply your given transformation to teach of the points A, B, C to see the effect it has on the triangle. What rigid motion does it describe?
- Compose two of the rigid motions in your group. What is the net effect?

$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{c}1&0\\0&1\end{array}\right)\left(\begin{array}{c}x\\y\end{array}\right) + \left(\begin{array}{c}1\\-2\end{array}\right)$$

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$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{c}1&0\\0&-1\end{array}\right)\left(\begin{array}{c}x\\y\end{array}\right) + \left(\begin{array}{c}3\\-1\end{array}\right)$$

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$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{c}-1&0\\0&1\end{array}\right)\left(\begin{array}{c}x\\y\end{array}\right) + \left(\begin{array}{c}2\\1\end{array}\right)$$

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$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{c}-1&0\\0&1\end{array}\right)\left(\begin{array}{c}x\\y\end{array}\right) + \left(\begin{array}{c}0\\5\end{array}\right)$$

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$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{cc}1/2 & -\sqrt{3}/2\\\sqrt{3}/2 & 1/2\end{array}\right)\left(\begin{array}{c}x\\y\end{array}\right)$$

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$$T\left(\left(\begin{array}{c}x\\y\end{array}\right)\right) = \left(\begin{array}{c}\sqrt{3}/2 & -1/2\\1/2 & \sqrt{3}/2\end{array}\right) \left(\begin{array}{c}x\\y\end{array}\right)$$

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