*Transformations*

Book Sections: 1.7, 12.1, 12.2, 12.3

Skills tested:

- Given a preimage and image, identify the type of transformation.

- Given (x,y) coordinates, perform the following:

 - Translate according to arrow notation

 - Reflect across x-axis, y-axis, or y=x

 - Rotate around origin 90⁰ or 180⁰

- Given coordinates of a point and its image after a translation, identify the rule and translate a second point.

Important formulas to remember:

- Reflections: p. 826

 x-axis: (x,y) 🡪 (x,-y)

 y-axis: (x,y) 🡪 (-x,y)

 line y=x: (x,y) 🡪 (y,x)

-Translations: p. 832

 Movement left or right: (x±a, y)

 Movement up or down: (x, y±b)

 Movement l/r and up/down: (x±a, y±b)

-Rotations: p. 840

 90⁰ about origin: (x,y) 🡪 (-y, x)

 180⁰ about origin: (x,y) 🡪 (-x, -y)

*Lines and Angles:* Book sections: 3.1, 3.2, 3.3

Skills tested:

- Given a diagram, identify pairs of parallel segments, perpendicular segments, skew segments, and/or parallel planes. (p. 146)

- Given two lines and a transversal, identify pairs of corresponding, alternate interior, alternate exterior, and same-side interior angles. (p. 147)

-Given two intersecting lines, set-up and solve a system of equations because vertical angles are congruent. (p. 152-3)

-Given two parallel lines and a transversal, set-up and solve equations to find angle measure. (p. 155-6)

-Use the converse statements (p. 162-3) to explain why or why you know two lines are parallel.

Review: Midpoint formula (p. 43), distance formula (p. 44)

***EXTRA CREDIT:*** Earn 8 points on your test:

p. 888: #1-8

p. 206: #1-8 (due test day)

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