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Stanley Rothman* (stanley.rothman@quinnipiac.edu), 15 stacy ct, Cheshire, CT 06410. *New Applications of the Linear Regression Formulas to the MLB, NBA, and NFL.*

In my talk last year, using properties common to teams in the MLB, the NBA, and the NFL, I created a new General Linear Theorem (GLTH). From this GLTH, I produced three new linear regression equations, one for the MLB, one for the NBA, and one for the NFL, to predict a team winning percentage for any completed season using its run and point difference for an entire season. In this year's talk, I produce three new linear regression equations to predict a team winning percentage, after any fixed number of games during any season. Using these new linear regression equations, we can determine a team's performance, over or under, at any point in a season. Finally, I demonstrate a technique to compare parity between seasons in one league and seasons in another league by comparing the NBA 2017-18 season with the MLB 2017 season. (Received August 06, 2018)