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>> Hello, my name is Aaron Warnock [assumed spelling] and I'm a faculty advisor for Pearson. I wanted to share some exciting resources available to you for your precalculus and college algebra courses for graphing and helping students visualize the mathematical concepts. The first is the dozens of interactive figures and guided visualizations. These can be used by the instructor as part of their teaching during class.

The interactive figures give students the opportunity to adjust the values of a family of functions and see how those adjustments affect the graph. My favorite are these possible transformations on each of the trig functions. They can also be assigned to students through homework as they bring mathematical concepts to life through directed explorations and purposeful manipulation before answering specific questions.

The second is the brand new GeoGebra exercises within my lab homework. There are as many as 150 of these GeoGebra exercises available on new precalculus and college algebra MyLab offerings. Unlike the multiple choice options of most online homework systems have for graphing more challenging functions, like polynomials, rationals and trigonometry, GeoGebra enables students to interact directly with the graph in a manner that reflects how students can graph by hand on paper.

Students have to visually plot out points to construct the graph. Or conversely students look at the provided graph and determine the algebraic function for that graph. This allows students to demonstrate deeper understanding. Even within one GeoGebra question many representations are possible giving the students an authentic challenge.

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