

Monday . Triangle EFG has coordinates E (-2, 3) F (1, 2) and G (3, 3). If the triangle is reflected over the line  $y = -1$ , what will the new coordinates be?

Tuesday

Simplify:  $\left( \frac{16x^{-\frac{3}{4}}y^{\frac{5}{2}}}{x^{\frac{9}{4}}y^{-\frac{3}{4}}} \right)^{\frac{1}{4}}$

Wednesday . The time it takes you to get to campus varies inversely as your driving speed. Averaging 20 miles per hour in bad traffic, it takes you 1.5 hours to get to campus. How long would the trip take averaging 50 miles per hour?

Thursday

Julie creates a two-dimensional drawing of the planet Saturn on a coordinate plane. The circumference of the planet can be modeled by the equation  $x^2 + y^2 = 10$ . The rings can be modeled by the equation  $2x + 1 = y$ . What are the coordinates of the points where the rings meet the edge of the planet?

Friday

Simplify:  $(21x^4 + 12x^3 - 42) + (-13x^4 + 7x^2 - 19)$