

Power Standard 1: Rational Functions

For what value of  $y$  is the expression  $\frac{3y}{5y+2}$  undefined?

AI-APR-D-7

Power Standard 2: Interpreting Word Problems - 2 Linear Equations

A fruit vendor sells apples and oranges. On a particular day, she sold a total of 25 fruits and made \$40 in revenue. The vendor wants to determine whether the pricing for her products is comparable to others at the market. Her selling price of an apple is \$2, and the selling price of an orange is \$3. How many apples,  $a$ , and oranges,  $b$ , did she sell?

AI-HSA-CED-A-3

Power Standard 3: Linear Functions

Felix is saving money for a class trip. He has already saved \$225 that he will put toward the trip, but needs at least \$3800. To earn more money, Felix gets a job where each month he can save \$300 a month. Write an inequality that represents how many months Felix will need to work if  $m$  represents the number of months.

AI-HSA-REI-B-3

Power Standard 4: Systems of 2 Linear Equations in 2 Variables

$$\begin{aligned} 24 - 6y &= 2x \\ 6(y - 2) &= 3 + x \end{aligned}$$

If  $(x, y)$  is a solution to the system above, what is the value of  $y + x$ ?

AI-HSA-REI-C-5