

**Point-Slope and Standard Form Seminar Problems - Watch**

1. A line passes through the points (2, -5) and (4, 6). Write the equation of this line in both point-slope form and standard form.
2. Convert the equation  $y + 10 = -(x - 5)$  into standard form.
3. You have \$150 to spend during your upcoming family vacation. You want to spend the money on souvenir t-shirts for yourself, but you also want to buy gifts for your friends. The shirts you like cost \$25 each, and the gifts you like for your friends cost \$15 each. Write an equation in standard form to describe the different combinations of shirts and gifts you are able to purchase.
4. What are the intercepts in the equation you wrote in #3? What do these numbers mean in the context of the problem?
5. Use the equation you wrote in #3 to determine how many shirts you can purchase if you buy 6 gifts for your friends.