2.4 Writing Linear Equations

1. **Slope-Intercept Form**
    a. $y = mx + b$

    b. $y =$

    c. $m =$

    d. $x =$

    e. $b =$

2. **Point Slope Form**
    a. What is point slope form? Why do we need it?

    b. $m = 3 \qquad (2, 1)$

    c. $m = 5 \qquad (-4, -10)$

3. **Word Problems**
    a. While driving in your car the gas light comes on. You know that your gaslight comes on when there is 3 gallons of gas left in the tank. If your car gets 12 miles per gallon, how far can you make it until the car runs out of gas? If your 30 miles from home will you be able to make it?

- <u>Important Info:</u>

- <u>Create your equation:</u>

- How far will the car run until it's out of gas? :

- Do you make it home?