Quiz 3

Name:	Perm Number:	

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$766 = 720 + 36 + 10 \qquad \frac{766}{12} = 80 + 3 + \frac{10}{12}$$
$$= 80.12 + 3.12 + 10 \qquad 83\frac{5}{6}$$

2) Substitute x = kt + p into

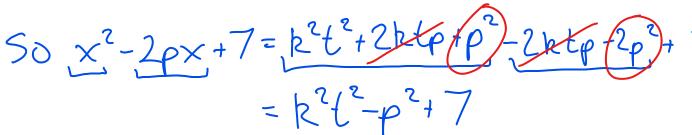
$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here –

R2+2-p2+7

$$\chi^2 = (kt+p)^2 = k^2t^2 + 2ktp+p^2$$



Math 34A, UCSB Spring 2022

3) Find the equation of a line with slope m=3 and y-intercept b=-5.

$$y = m \times tb$$

$$y = 3 \times -5$$

4) Find the equation of a line with slope m=3 passing through the point (1,6).

$$y = \frac{6 + 3(x-1)}{6}$$

 $10-10=0 \qquad -6+6=0 \checkmark$ 5) Find the point where the lines with equations y=5x-10 and y=-3x+6 cross.

$$5x-10=y=-3x+6$$

 $8x=16$ $(x,y)=$ $(2,0)$
 $x=2$