

MA122 HW5 Tuesday

1. 8-4: 14, 28

2. Derive Equation (2) and (3) in Section 8-5, and show that if

$$\bar{x} = \frac{1}{n} \sum_{k=1}^n x_k \quad \text{and} \quad \bar{y} = \frac{1}{n} \sum_{k=1}^n y_k$$

are the averages of the x and y coordinates, respectively, then the point (\bar{x}, \bar{y}) satisfies the equation of the least squares line $y = ax + b$.

3. 8-5: 28