

1. (3 pts.) Solve the following system of linear equations by finding the point of intersection of lines

$$x - 4y = -2$$

$$x + 2y = 4$$

2. Find the equation of the line which is

- a. (2 pts.) Parallel to $y = 5x + 60$ and passes through the point $(2,0)$

- b. (2 pts.) Perpendicular to $y = 5x + 60$ and passes through the point $(0,2)$

3. (3 pts.) Solve the following system of linear equations by using the Gaussian elimination method.

$$\frac{1}{3}x + 2y = 1$$

$$-2x - 4y = 6$$