

① On the same graph, graph

① $y = 2x + 3$

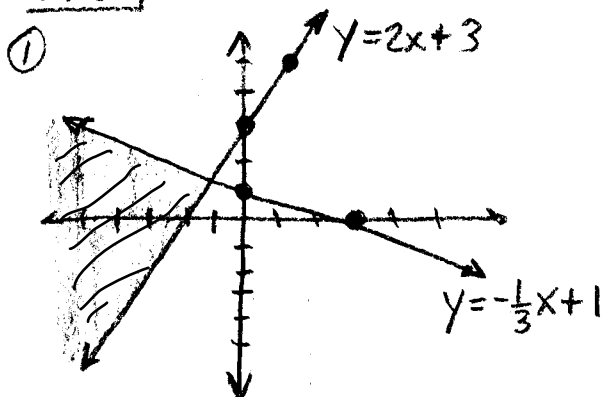
$y = -\frac{1}{3}x + 1$

② Show the solution to:

$$\begin{cases} y \geq 2x + 3 \\ y \leq -\frac{1}{3}x + 1 \end{cases}$$

② Find the EOL through $(2, -5), (8, 4)$

Ans



② $(2, -5), (8, 4)$

$$m = \frac{4 - (-5)}{8 - 2} = \frac{9}{6} = \left(\frac{3}{2} = m\right)$$

$$y = mx + b$$

$$4 = \frac{3}{2} \cdot 8 + b$$

$$4 = 12 + b$$

$$-8 = b$$

$$y = \frac{3}{2}x - 8$$

ALG-2 Homework Review

Pg 164 #14, 15, 19

⑭ $\begin{bmatrix} 10 \\ -4 \\ 5 \end{bmatrix}$

⑮ NOT POSSIBLE

⑲ $\begin{bmatrix} -13 \\ -3 \\ 23 \end{bmatrix}$

Pg. 171 #4-8

④ 3×2

⑤ UNDEFINED

⑥ $[19, 15]$

⑦ $\begin{bmatrix} 15 & -5 & 20 \\ 24 & -8 & 32 \end{bmatrix}$

⑧ NOT POSSIBLE

Pg 172 #15-18, 27

⑮ UNDEFINED

⑯ 1×5

⑰ UNDEFINED

⑱ 3×5

27 YES

$$AC + BC$$

$\Downarrow$

$\Downarrow$

$$\begin{bmatrix} 1 & 9 \\ 26 & -8 \end{bmatrix} + \begin{bmatrix} -21 & -13 \\ 26 & -8 \end{bmatrix}$$

$\swarrow$

$\searrow$

$$\begin{bmatrix} -20 & -4 \\ 52 & -16 \end{bmatrix}$$

$\checkmark$
 $=$

$$(A+B)C$$

$\Downarrow$

$$\begin{bmatrix} -4 & 0 \\ 8 & 6 \end{bmatrix} \cdot \begin{bmatrix} 51 \\ 2 & -4 \end{bmatrix}$$

$\Downarrow$

$$\begin{bmatrix} -20 & -4 \\ 52 & -16 \end{bmatrix}$$