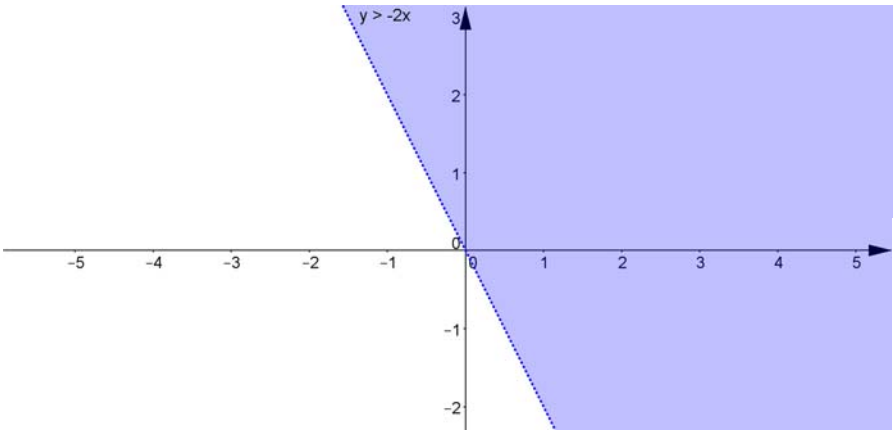
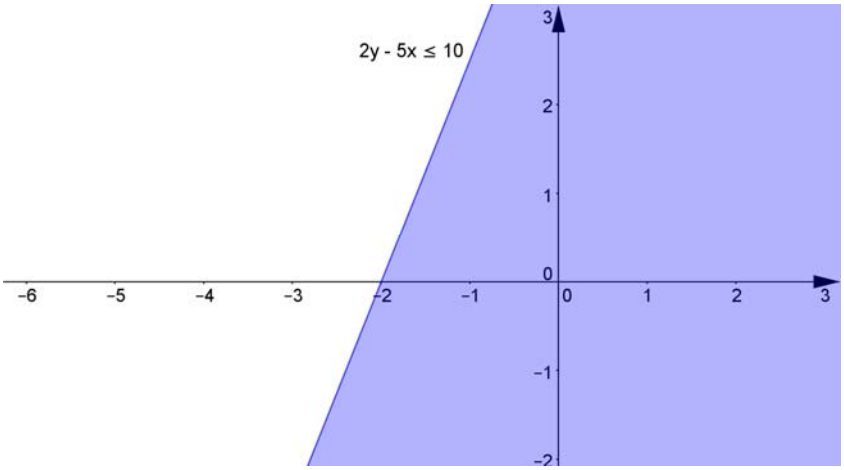
[1] $4(1)-5(-4)=24$. 24 is not less than 12. Therefore, $(1,-4)$ is not a solution.

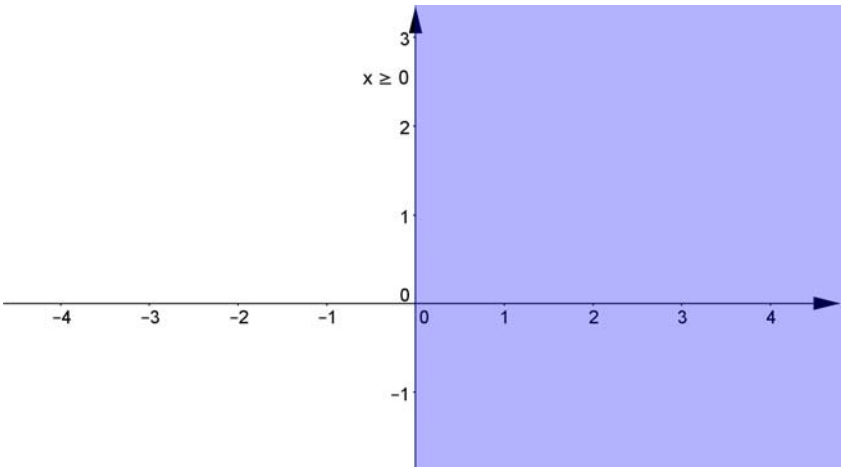
[3]



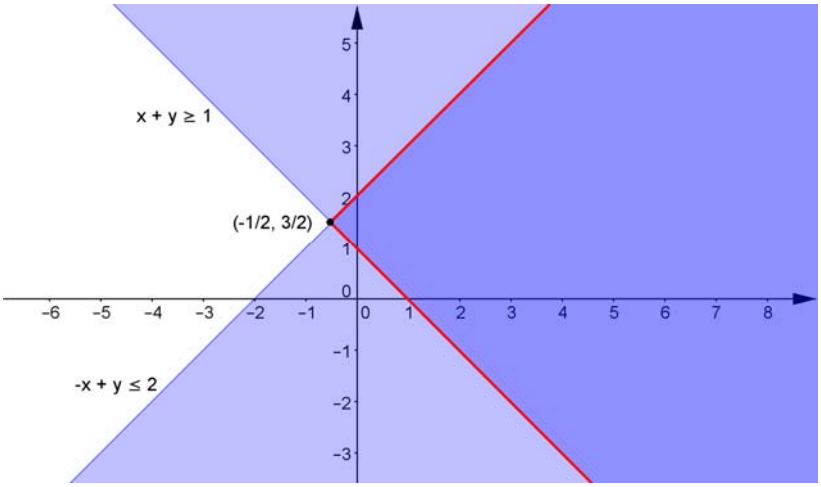
[5]



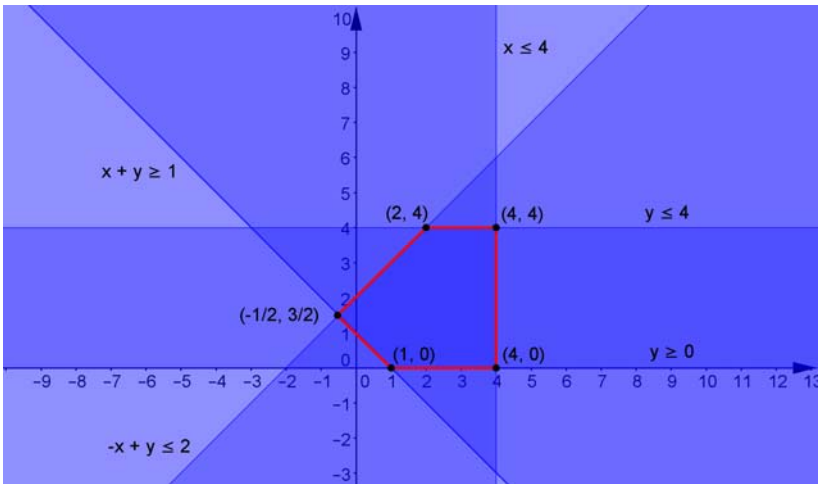
[7]



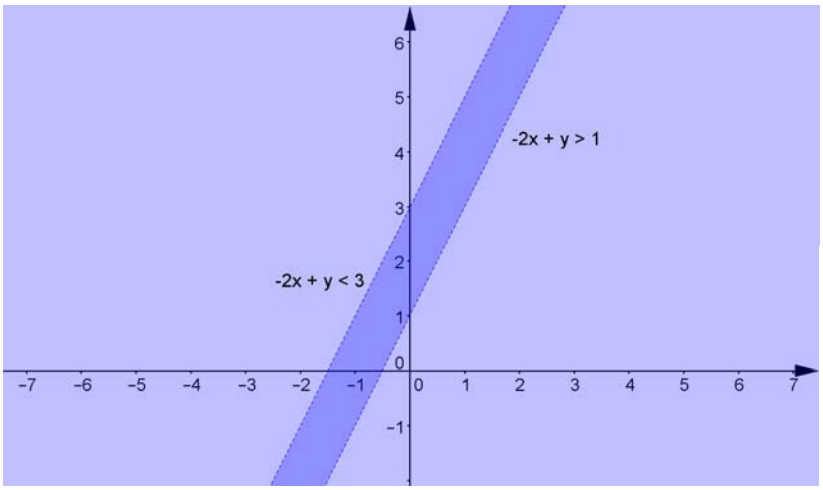
[9] Corner point: $\left(-\frac{1}{2}, \frac{3}{2}\right)$



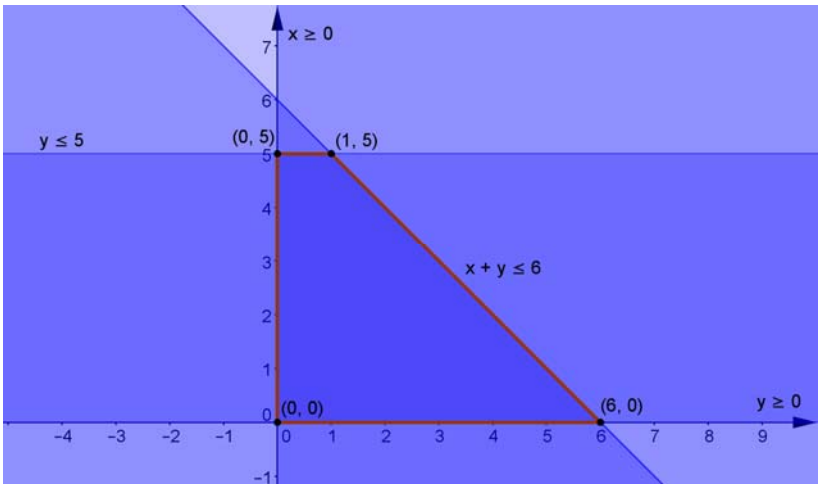
[11] Corner points: $\left(-\frac{1}{2}, \frac{3}{2}\right)$, $(2, 4)$, $(4, 4)$, $(4, 0)$, $(1, 0)$



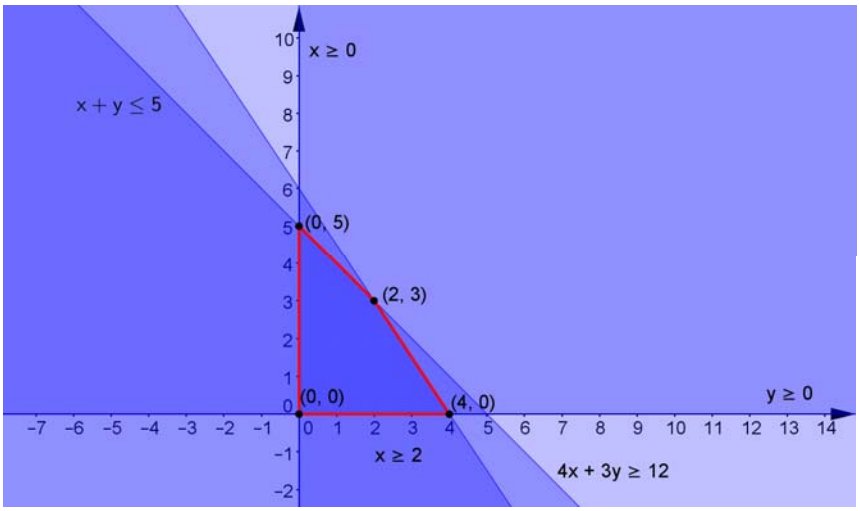
[13] No corner points exist. Unbounded solution set.



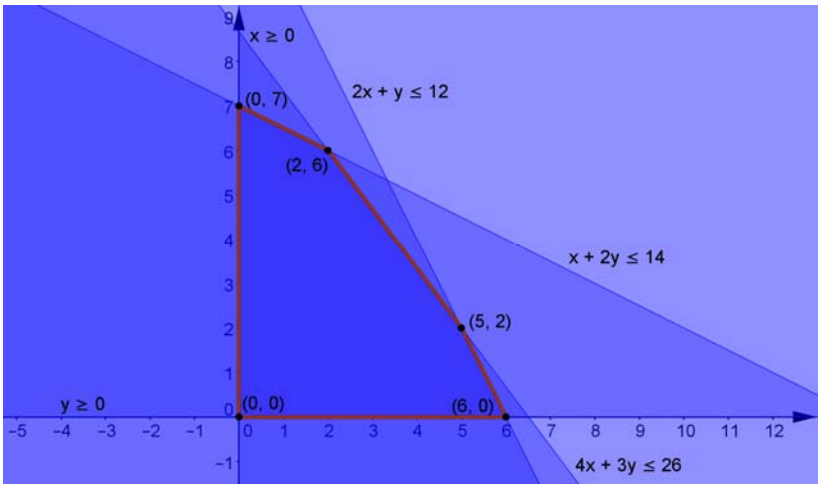
[15] Corner points: $(0,\ 0)$, $(0,\ 5)$, $(1,\ 5)$, $(6,\ 0)$ Bounded solution set.



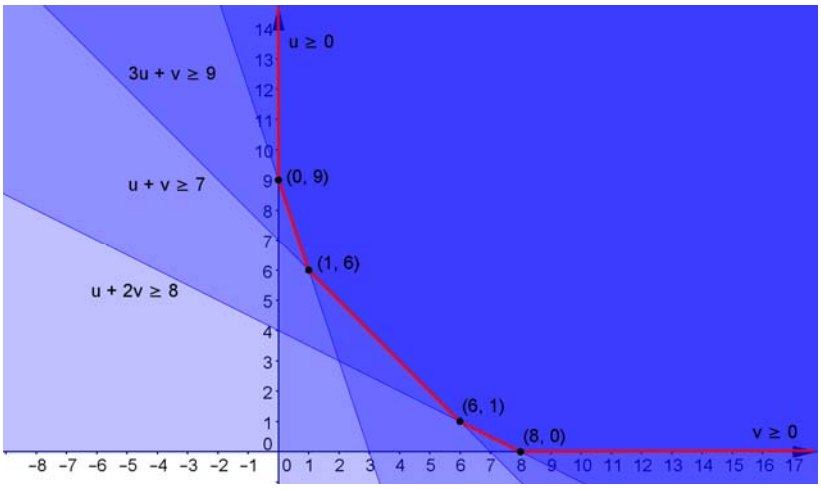
[17] Corner points: $(0,\ 0)$, $(0,\ 5)$, $(2,\ 3)$, $(4,\ 0)$ Bounded solution set.



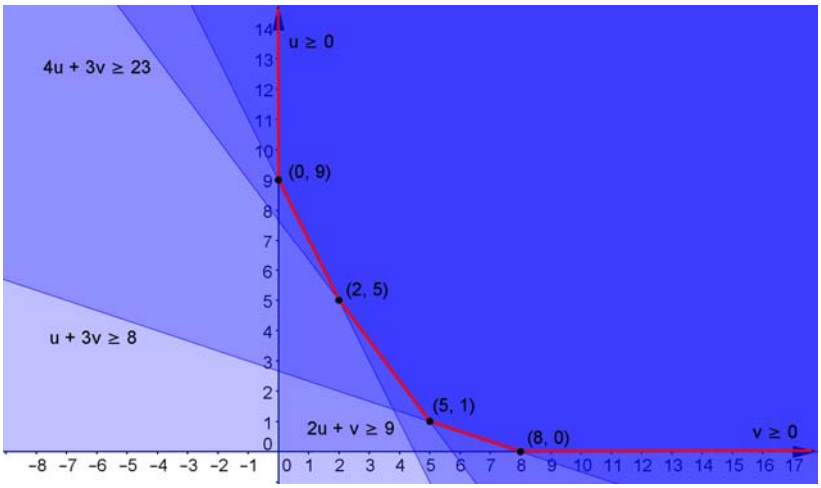
[19] Corner points: $(0,\ 0)$, $(0,\ 7)$, $(2,\ 6)$, $(5,\ 2)$, $(6,\ 0)$ Bounded solution set.



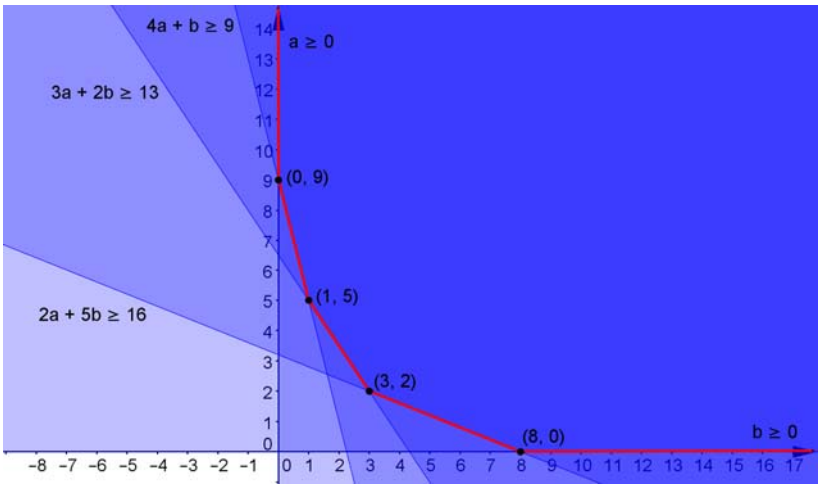
[21] Corner points: $(0,\ 9)$, $(1,\ 6)$, $(6,\ 1)$, $(8,\ 0)$ Unbounded solution set.



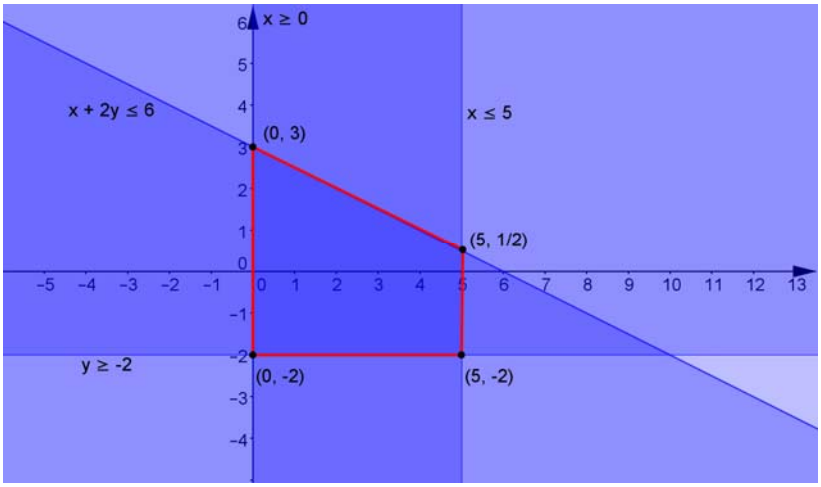
[23] Corner points: $(0,\ 9)$, $(2,\ 5)$, $(5,\ 1)$, $(8,\ 0)$ Unbounded solution set.



[25] Corner points: $(0,\ 9)$, $(1,\ 5)$, $(3,\ 2)$, $(8,\ 0)$ Unbounded solution set.



[27] Corner points: $(0,-2)$, $(0,\ 3)$, $\left(5, 1/2\right)$, $(5,-2)$ Bounded solution set.



[29] Corner points: $(-3,\ 0)$, $\left(1/6,\ 19/2\right)$, $\left(24/7, -2/7\right)$, $\left(-3, -7/2\right)$ Bounded solution set.