

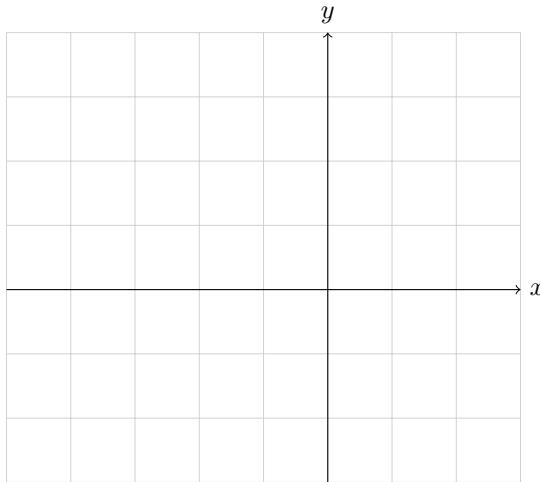
PLOT LINES → FIND AREA

Math 10 · Mr. Merrick · January 14, 2026

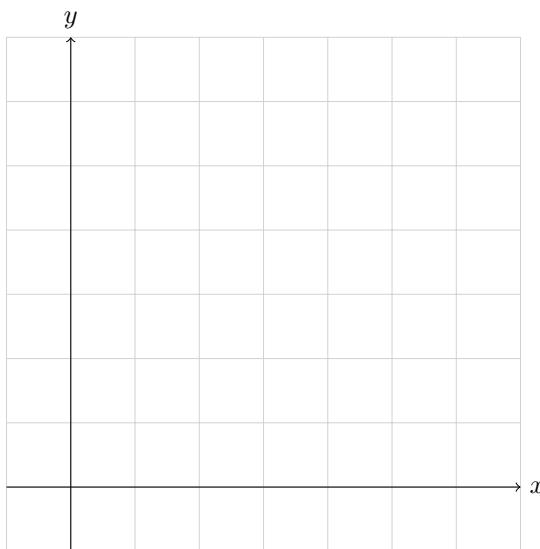
For each question:

- Plot all given lines on the Cartesian plane.
- Identify the enclosed region.
- Find the area. (Use horizontal bases and vertical heights.)

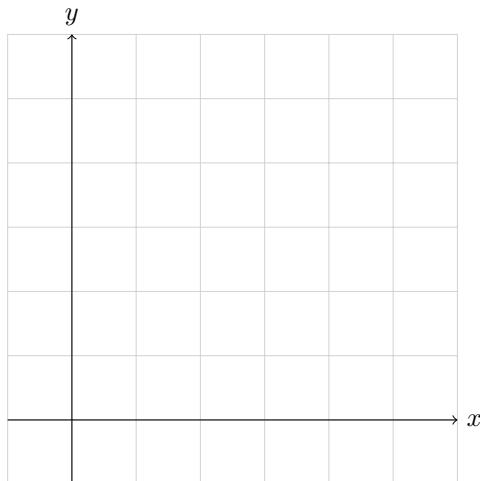
1. Plot $y = 1$, $y = x + 1$, and $y = -x - 1$. Find the area of the region they enclose.



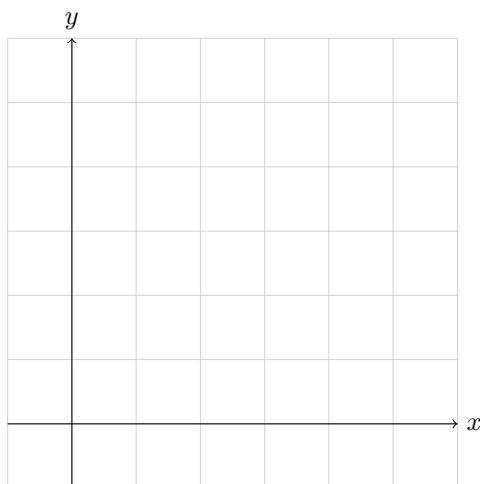
2. Plot $x = 0$, $y = 0$, and $y = -x + 5$. Find the area of the region they enclose.



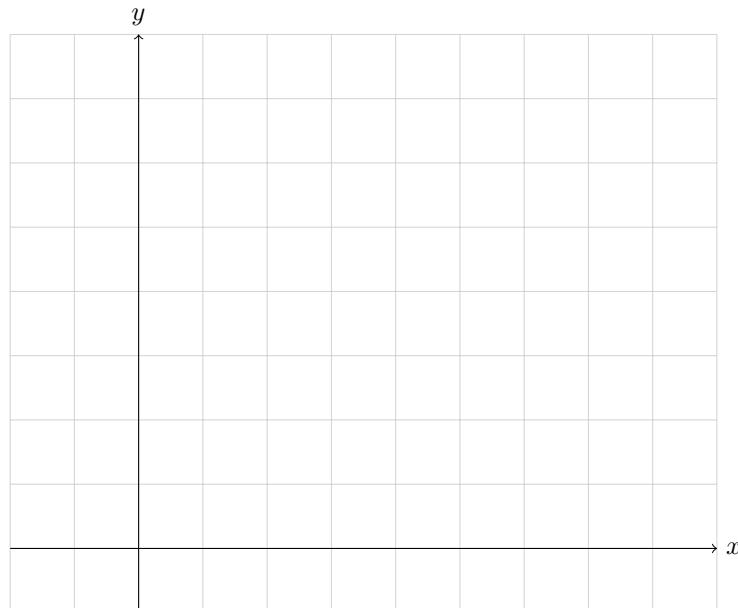
3. Plot $x = 0$, $y = 3$, and $y = x + 1$. Find the area of the region they enclose.



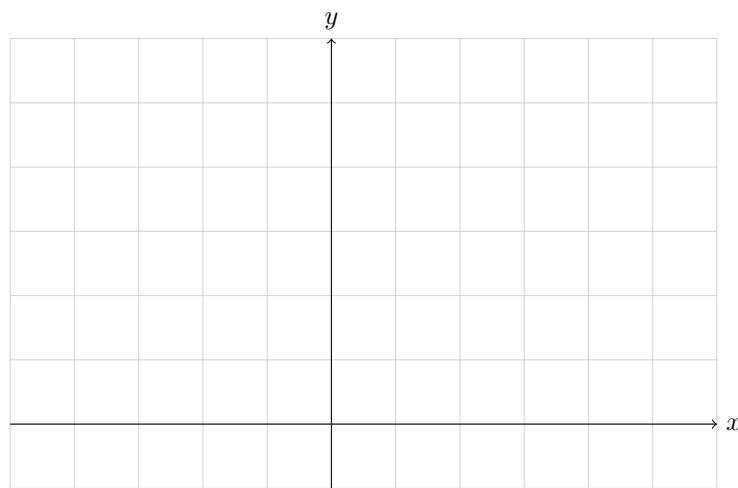
4. Plot $x = 0$, $y = 0$, $y = 4$, and $y = 2x$. Find the area of the region they enclose.



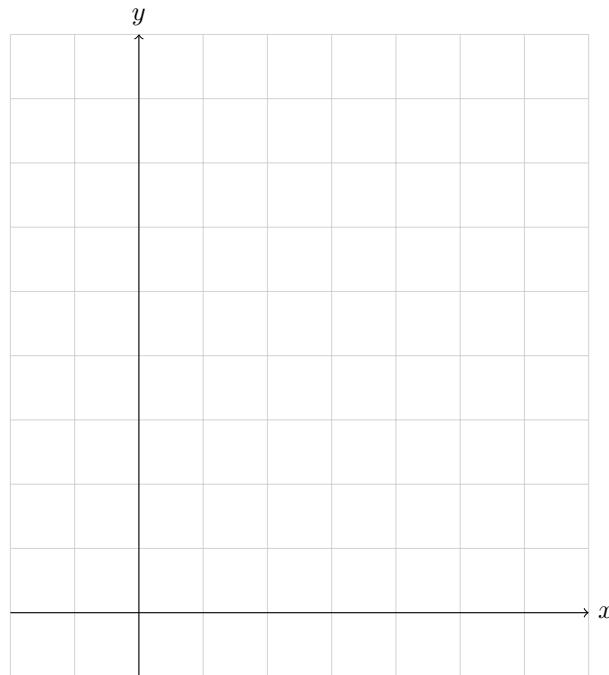
5. Plot $y = 1$, $y = 5$, $y = x + 1$, and $y = -x + 7$. Find the area of the region they enclose.



6. Plot $y = 0$, $y = 3$, $y = x$, and $y = x + 2$. Find the area of the region they enclose.



7. Plot $y = 2$, $y = 6$, $y = 2x$, and $y = -2x + 8$. Find the area of the region they enclose.



8. Plot $y = 1$, $y = 4$, $x = -1$, and $y = -x + 3$. Find the area of the region they enclose.

