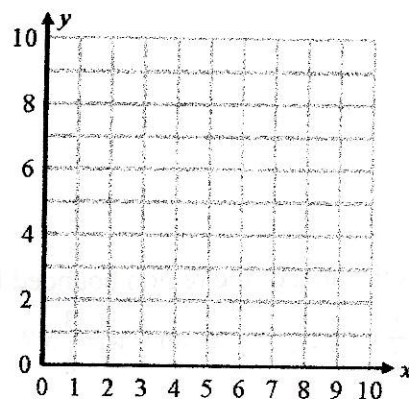


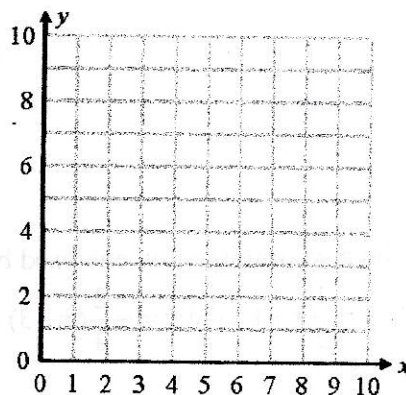
Solving Systems of Linear Equations

For questions 1 – 8, graph and shade the region then calculate the area of the region. Show the work that leads to your answers in questions 1 – 9.

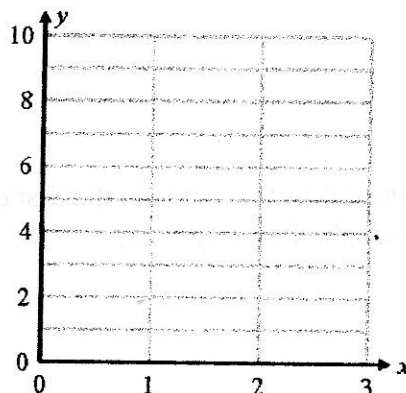
1. What is the area of the region in the first quadrant that is below the graph of $f(x) = -2(x-3)$?



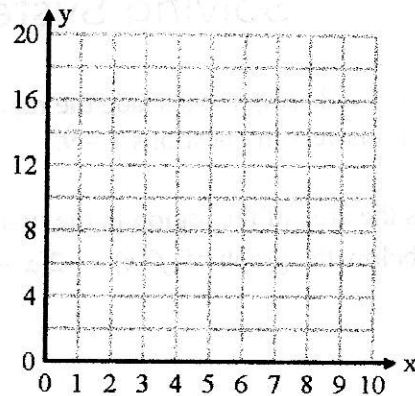
2. What is the area of the region enclosed by the graphs of $y = 0$, $x = 0$, $x = 6$, and $y = \frac{1}{3}(x-3) + 4$?



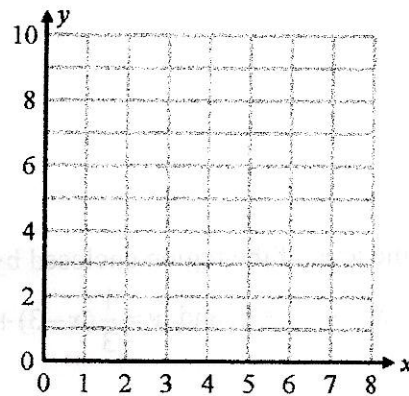
3. What is the area of the region in the first quadrant that is below the graph of $y = -5(x-1) + 4$?



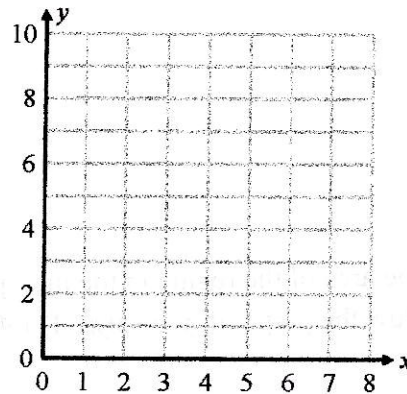
4. Let R be the region in the first quadrant under the graph of $y = 2x$ for $4 \leq x \leq 9$. What is the area of R ?



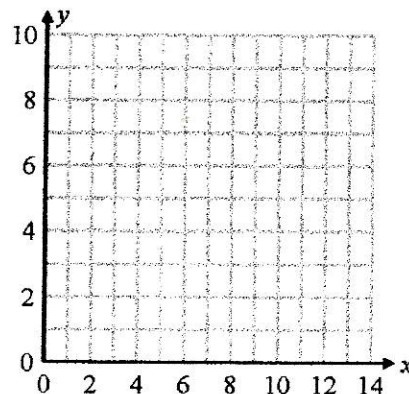
5. What is the area of the region bounded by the graphs of $y = \frac{1}{2}x + 6$, $y = \frac{7}{2}x$, and $y = \frac{3}{2}x$?



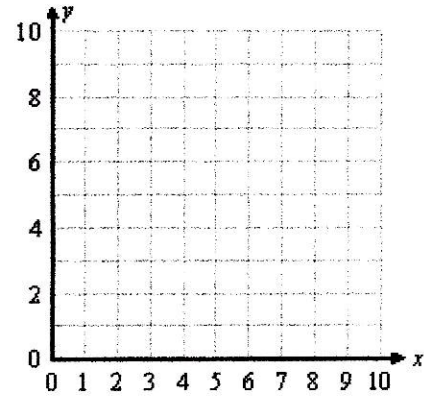
6. What is the area of the region enclosed by the graphs of $x = 0$, $y = \frac{1}{2}x + 1$, and $y = -\frac{2}{3}(x - 3) + 6$?



7. What is the area of the region in the first quadrant under the graph of $2x + 4y = 25$?



8. What is the area of the region enclosed by the graphs of $y=0$, $y=-\frac{2}{3}x+9$ for $0 \leq x \leq 5$?



9. What is the area of the region R bounded by line m , line p , and the x -axis as shown in the graph?

