

Solving Systems of Linear Equations

For problems 1 - 8, graph and shade the region then find the area of the region.

1. Find the area of the region below the graph of $f(x) = -2x + 6$ in the first quadrant.
2. Find the area of the region enclosed by the graphs of $y = 0$, $x = 0$, $x = 6$, and $y = \frac{1}{3}x + 3$.
3. Find the area of the region below the graph of $y = -5x + 9$ in the first quadrant.
4. Let R be the region in the first quadrant under the graph of $y = 2x$ for $4 \leq x \leq 9$. Find the area of R .
5. Find 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. Find the area of the region enclosed by the graphs of $x = 0$, $y = \frac{1}{2}x + 1$, $y = -\frac{2}{3}x + 8$.
7. Find the area of the region in the first quadrant under the graph of $2x + 4y = 25$.
8. Find 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. Find the area of the region R bounded by line m , line p , and the x -axis as shown in the graph to the left.

