1. Graph \( h(x) = f(x) + 1 \).

2. Devise a plan for finding the area bounded by the \( x \)-axis, the \( y \)-axis, the curve \( h(x) \), and the line \( x = 7 \). Explain your plan.

3. Calculate the area described in question 2. Show the calculations that support your answer.
4. Graph $g(x) = f(x) + 3$.

5. Devise a plan for finding the area bounded by the $x$-axis, the $y$-axis, the curve $g(x)$, and the line $x = 7$ then explain your plan.

6. Calculate the area described in question 5. Show the calculations that support your answer.

7. Compare your answers from question 3 and 6. By looking at the geometric differences in the two figures, give a geometric reason why the difference between the two answers is 14.

8. Without drawing the figure, if $k(x) = f(x) + 5$, what is the area bounded by the $x$-axis, the $y$-axis, the curve $g(x)$, and the line $x = 7$? Explain your reasoning.