

Extra Area Practice Problems

1. Find the area of the region between the x-axis and $y = 1 + \sqrt{x-1}$ from $x = 2$ to $x = 10$.
2. Find the area of the regions between the x-axis and $f(x) = x^3 + x^2 - 2x$ from $x = -2$ to $x = 1$.
3. Find the area of the region between $y = x^2 - 1$ and $y = x + 5$.
4. Find the area of the region between the x-axis, $y = \frac{1}{2}x^2$, $x = 3$, and $y = 2e^{2-x}$.
5. Find the area of the region between the y-axis and $x = y^2 - y^3 + 6y$ from $y = 0$ to $y = 3$.
6. Find the area of the region bounded above by $y = 8 - x$, and $x = y^3 - 2$ and bounded below by $x = y^2 - 4$.