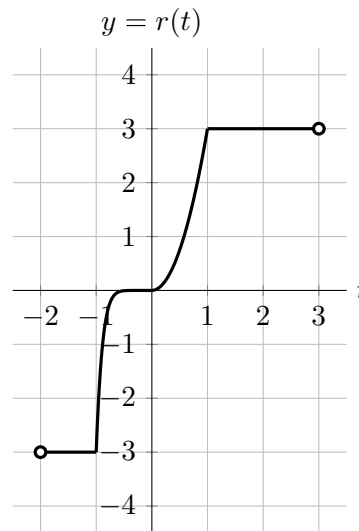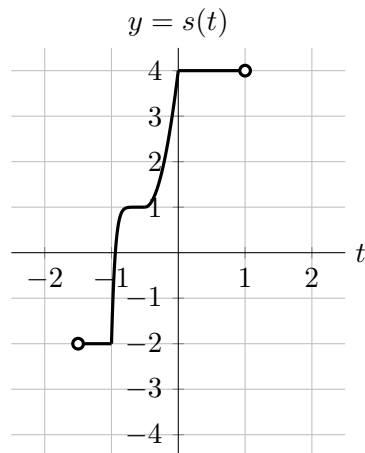**10**. [6 points] The graph of $r(t)$ with domain $(-2, 3)$ is given below.

$$y = r(t)$$

In each of the following parts, the graph of a function obtained from r by one or more transformations is shown. *Note that the graphs are not all drawn at the same scale.*
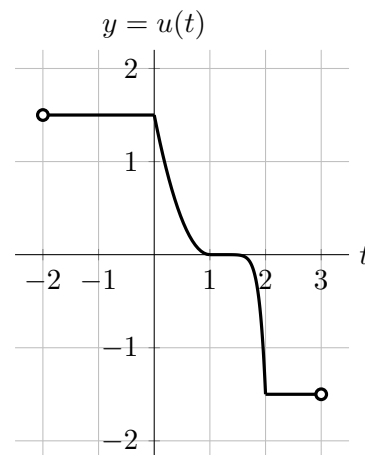

Find a formula for $s(t)$ and $u(t)$ in terms of the function r. You do not need to show work in this problem.

a. [3 points]

$$y = s(t)$$

Solution: $s(t) = r(2(t + 0.5)) + 1$

b. [3 points]

$$y = u(t)$$

Solution: $u(t) = \frac{1}{2}r(-(t-1))$