

Week 10 FLO (Friday Learning Opportunity)

1. Given these facts about a function J , draw a sketch of J that has all the given properties:

$x < 2$	$J'(x) < 0$
$2 < x < 3$	$J'(x) = 0$
$3 < x$	$J'(x) > 0$

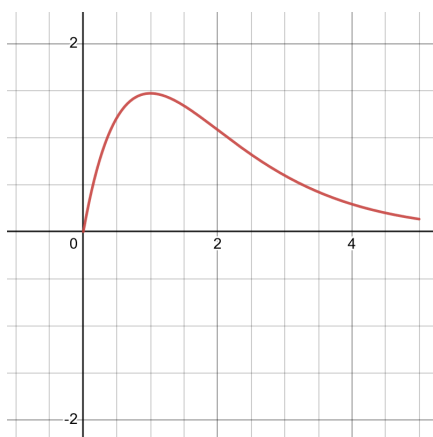
Also $J(2) = 5$.

2. Given these facts about a function J , draw a sketch of J that has all the given properties:

$x < 2$	$J'(x) > 0$
$2 < x$	$J'(x) < 0$

Also $J(2) = 5$ and J is not differentiable at 2.

3. A graph of a function V is shown. As best you can, sketch a graph of V' .



4. For the function $T(x) = \frac{x+5}{x+7}$, solve the inequality $T'(x) > 0$; and solve the inequality $T''(x) > 0$.