CHALLENGE **1**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f > 0, f' < 0, f'' < 0$$
CHALLENGE **2**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f < 0, f' < 0, f'' > 0$$
CHALLENGE **3**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f < 0, f' < 0, f'' < 0$$
CHALLENGE **4**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f < 0, f' > 0, f'' > 0$$
CHALLENGE **5**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f > 0, f' < 0, f'' > 0$$
CHALLENGE **6**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f > 0, f' > 0, f'' > 0$$
CHALLENGE **7**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f < 0, f' > 0, f'' < 0$$
CHALLENGE **8**	Sketch a graph of the function f between any two points to meet the stated conditions. $$f > 0, f' > 0, f'' < 0$$

Activity Modified from Materials Shared by Mike Koehler at Calculus AB AP Summer Institute