**Quiz** #13

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Key

You must show your work to get full credit.

1. If f(40) = 50 and f'(40) = -2 then estimate the following:

$$f(41) \approx \underline{\qquad 48}$$

$$f(38) \approx \underline{\qquad 59}$$

$$= 50 + 2 (38 - 40)$$

$$= 50 - (-2) = 54$$

2. Draw the graph of a function that satisfies the following

- f(1) = 2,
- f(2) = 1,
- f'(1) = 0,
- f" < 0 (1.2 concave down)

labeling on the graph the points where x = 1 and x = 2.

