- 3. [8 points] Rachel is the online marketing manager at a dress shop. She is running a week-long (168 hour) Facebook promotion for a specific dress starting Monday at 12:00am. The price of the dress changes according to how many times it has been viewed on Facebook since the start of the promotion. Let V(h) be the total number of times the dress has been viewed on Facebook during the first h hours of the promotion. Let P(v) be the price of the dress, in dollars, after it has been viewed v times during the promotion.
 - **a.** [3 points] Assuming P^{-1} is a function, give a practical interpretation of the expression $P^{-1}(200) = 350$.

b. [3 points] Give a practical interpretation of the expression P(V(100)).

c. [2 points] Compare the quantities below by writing one of the symbols \leq , \geq , or = in the blank, or by writing "N" if there is not enough information in the problem to compare them. You do not need to justify your answer.

$$V(20)$$
_____ $V(35)$.

4. [4 points] Suppose quantities Q, E, and D are temperatures in ${}^{\circ}F$ at three different locations near Phoebe's apartment building measured at five different times during the winter. Which of Q, E and D could be a function of another?

Q	13.2	4	0	3.2	3
E	19	-1	11	17.25	-1
D	23.7	-8	15	12.3	-18

Circle all of the following statements that **could** be true:

Q is a function of E.

Q is a function of D.

E is a function of D.

E is a function of Q.

D is a function of E.

None of these.