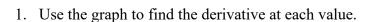
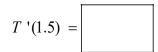
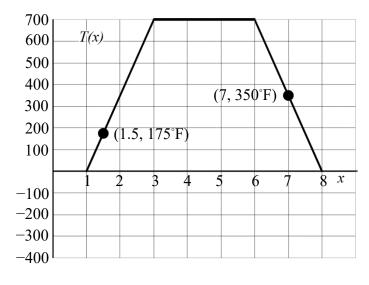
## **Oven Temperature**

The graph shows the temperature in a pizza oven during a self-cleaning cycle. Let T(x) be the temperature after x hours. Complete the boxes below. Write DNE if it does not exist.







- 2. What is the measurement of unit of the values of the derivatives in the previous question? Circle one.
  - A. hours B. °F
- C. ovens
- D. dollars E. dollars per oven
- F. ovens per dollar

- G. dollars per hour
- H. hours per dollar
- I. hours per °F
- J. °F per hour
- 3. Which of these is the interpretation of the meaning of T'(1.5)?

Circle one and complete the box for the choice you circled.

- °F. A. At 1.5 hours, the temperature of the oven is
- B. At 1.5 hours, the temperature of the oven is increasing at a rate of °F per hour.
- C. At 1.5 hours, the temperature of the oven is decreasing at a rate of °F per hour.
- 4. Which of these is the interpretation of the meaning of T'(4)? Circle one and, if applicable, complete the box.
  - A. At 4 hours, the temperature of the oven is 0 °F.
  - B. At 4 hours, the temperature of the oven is not changing
  - C. At 4 hours, the temperature of the oven is increasing at a rate of °F per hour.
  - D. The temperature of the oven is increasing at a rate of 4°F per hour.
- 5. Which of these is the interpretation of the meaning of T' (7)

Circle one and complete the box for the choice you circled.

- A. At 7 hours, the temperature of the oven is
- B. At 7 hours, the temperature of the oven is increasing at a rate of °F per hour..
- °F per hour. C. At 7 hours, the temperature of the oven is decreasing at a rate of

6. 
$$\lim_{x \to 3^{-}} \frac{T(x) - 700}{x - 3} =$$

$$\lim_{x \to 3^{+}} \frac{T(x) - 700}{x - 3} = \boxed{}$$

$$\lim_{x \to 3^{-}} \frac{T(x) - 700}{x - 3} = \boxed{ } \lim_{x \to 3^{+}} \frac{T(x) - 700}{x - 3} = \boxed{ } T'(3) = \lim_{x \to 3} \frac{T(x) - 700}{x - 3} = \boxed{ }$$

7. 
$$\lim_{x \to 6^{-}} \frac{T(x) - 700}{x - 6} = \boxed{\phantom{a}}$$

$$\lim_{x \to 6^+} \frac{T(x) - 700}{x - 6} = \boxed{}$$

$$\lim_{x \to 6^{-}} \frac{T(x) - 700}{x - 6} = \boxed{\qquad} \quad \lim_{x \to 6^{+}} \frac{T(x) - 700}{x - 6} = \boxed{\qquad} \quad T'(6) = \lim_{x \to 6} \frac{T(x) - 700}{x - 6} = \boxed{\qquad}$$

8. Sketch the graph of T'(x) on the above set of axes.