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Name:			
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L

132.78

132.90

133.02

133.14

133.26

133.38 133.50

74.4

1. The length L of a bridge increases as the temperature T increases. The table gives the length of the bridge in feet in terms of the temperature in °F. Estimate L', the rate of change of L in with respect to T, at the time when $T=75^{\circ}$.

ases as the temperature 1 mercases. The	710
idge in feet in terms of the temperature	74.6
_	74.8
change of L in with respect to T , at the	75.0
	75.0
Answer:	74.6 74.8 75.0 75.2 75.4 75.6
THIS WOL.	75.4
	75.6

- 2. The volume of a circlular cylinder of height 4 and radius 4 is $V = 4\pi r^2$.
- a. Graph V as a function of r.

b. Estimate V', the rate of change of V with respect to r, at the point where r=2. Answer:

c. How close to the correct answer do you think your answer to part b is? Justify your claim.