Exercise 1: lin (1 - 1) = lin (t-1) - (t-1) + (t-1)  $= \lim_{h \to 0} \left( \frac{t - 1 - 1}{t(t - 1)} \right) = \lim_{h \to 0} \left( \frac{t - 2}{t(t - 1)} \right)$ Evaluating the get  $\frac{-2}{0.-1} = \frac{-2}{0.}$  so the limit is either two,  $-\infty$ , or DNE. Left hand limit:  $\frac{-2}{(0^-)(-1)}$ Right hand lint:  $\frac{-2}{(0^{+})(-1)} = + C$ So limit (DNE).

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Exercise?: (at h/x) = 
$$\frac{|x-2|}{x}$$
.

Since  $|x-2| = (x-2)^{-1} + 2 = (x-$ 

Exercise 3 . \$4 for 15 how (or pat therof) \$2 Breach additional how (or part) . let's make a table: time parked 0.5 | 1 | [.1 | 2 | 2.9 | 3 | Gh Cost 4 | 4+2=6 6 | 6+2:8 | 6+2:8 | 8+2=10 | 12 (b) left-continuous everywhere, and fight-continuous everywhere except x=1,2,3,24. Significance: the difference bother parking for 59 minutes and I hour & 2 seconds is a big jump,