~~~			
Date			
Drawe	 	-	-

<u>CDate</u>	
c. f(-8)	
f(8)=-3	
Point Jump discontinuity  f (-8) defined at (-8, -3)	
f. Vertical Asymptotes	
Asymptotes are continuous so limit exists.	
Q1. \$ concrete + \$ fencing = \$800	
conc = L × w × 8 fence = 4 × 2 × L	
conc = L × w × B fence = 4 × 2 × L = 8 w L = 8 C	
8wl+8l=800	
BL (w+1) = 800 L(w+1) = 100	
10=100-1C	
w= 100 - 61 xl	
w= 100-6 An.	
Mathematically the domain should be a excluding 0, but as length cannot be we may assume $D(0,+\infty)$ .	all real numbers be negative

Date			
2000			

Q2. Flat fee = \$ 3.00	
Fox every 1 = :6 \$0.75 to \$3 for every mile	
For every 1 mile \$0.75 so \$3 for every mile.	
C(x)=3.00+0.75L4x	
1) (a) Lim C(x) = 3.75	
×>030	
(b) Cim C(H) = 3.75 Equal so limit exists	
x→030 ⁺	1
10) (in (12) - 2.75	
(C) lim C(X) = 3.75	
2) (a) Lim C(x) = 3.78 ]	
(b) lim c(x) = 3.75   lim exists	
270.43	
(c) lim C(x) = 3.75	
x-9045	
2/2/1= C(1)= C 7	
3) (a) lim C(u)= 5 ]	
(b) Lim C(u)= 5 / Lim enists.	
(c) lim C(u)=5	
1-30.75	
	2-63
	ixel

100		
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Q3.(1)In electric

Gradient constant so no max MPG

No man MPG

$$MPG(70) = 2200 = 31.43$$

$$MPG(60) = 2200 = 36.87$$

$$100 - s^2 = 2200$$
  
 $s^2 + 2200 - 100s = 0$ 

	Date
Car transitions at approx 67.82	26h
. The graph will be discontinuous	due to domains
of the functions and because at 55 mph but 100-5 does	es. S
Discontinuity seen at 55 MPG.	
	i Çxel