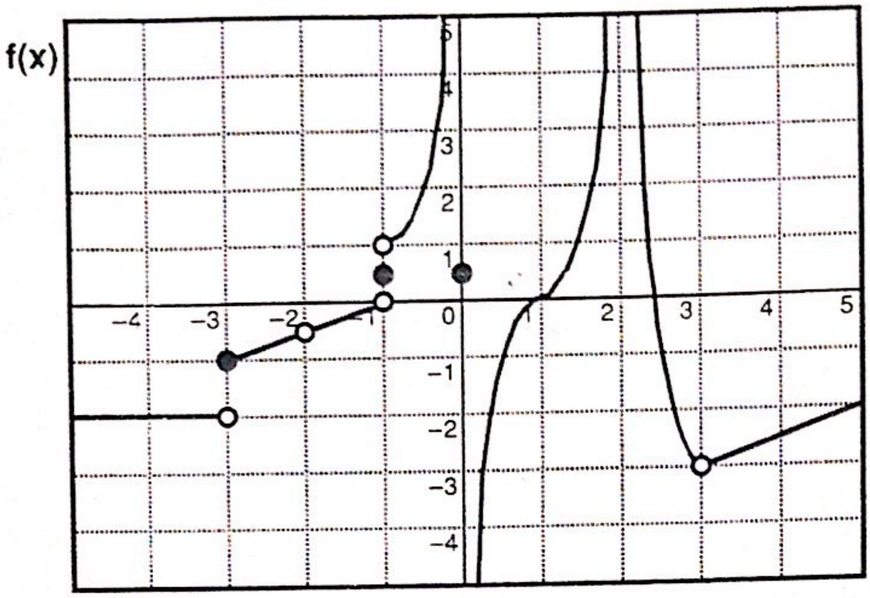
WHAT DID THE ASYMPTOTE SAY TO THE REMOVABLE DISCONTINUITY?



Complete the table below for f(x).

a	−3	−2	−1	0	1	2	3
f(a)	1)	5)	9)	13)	17)	21)	25)
$\lim_{x \to a^-} f(x)$	2)	6)	10)	14)	18)	22)	26)
$\lim_{x \to a^+} f(x)$	3)	7)	11)	15)	19)	23)	27)
$\lim_{x \to a} f(x)$	4)	8)	12)	16)	20)	24)	28)

29) Give the **right hand limit** as x approaches **−5**?

30) Give the **left hand limit** as x approaches **5**?

31) For what integer value in the above table is f(x) continuous?

32) f(x) has a removable discontinuity (hole) when the x value is 3 and when the x value is **(?)**.

33) f(x) is not defined at the vertical asymptote **x = (?)**.

34) On the open interval (−5, 5), f(x) has **(?)** discontinuities.

A.	−3
D.	0.5
E.	−0.5
H.	0
I.	1
L.	−1
M.	6
N.	−2
R.	2
O.	∞
T.	none
U.	−∞

9 22 32 , 4 | 17 27 2 13 | 25 10 28 16 | 19 23 1 31 6 33

5 18 26 29 | 12 20 24 15 | 3 11 30 8 | 21 14 | 34 7