Function Continuity at a Point

For each of the graphs answer the following questions:

A. If you believe the function is discontinuous at a point**, in your own words**, discuss WHY you think a discontinuity at that point.

p

q

r

1.

G(x)

p

q

H(x)

r

2.

p

q

r

3.

E(x)

p

r

C(x)

4.

p

r

B(x)

5.

r

p

6.

A(x)

r

K(x)

7.

r

L(x)

8.

B. NOW – we will introduce the formal definition of continuity at a point. State the 3 criteria for continuity at a point: f(x) is continuous at c if:

1)

2)

3)

Using the formal definition, **go back and explain WHY** the functions above are discontinuous at a point.