Cusp Mini Worksheet

2. (a) Not continuous
   or differentiable
   at x=0

   (b) Not continuous
   or differentiable
   at x=0

   continuous, but
   not differentiable
   at x=3

   (c) continuous, but
   not differentiable
   at x=1

3. (a) Discontinuity
   (b) corner
   (c) Discontinuity
   (d) cusp
   (e) vertical tangent
   (f) vertical tangent

4. (a) Discontinuous
   (b) Discontinuous
   (c) cusp
   (d) corner
   (e) Discontinuous
   (f) vertical tangent
   (g) vertical tangent
   (h) Discontinuous

5. (a) NO → Discontinuous
   (b) NO → Discontinuous
   (c) yes
   (d) NO → sharp turn/
       corner