

1. Find $\lim_{x \rightarrow 3^-} \frac{1}{|3-x|} + \left[\left[\frac{x}{2} - 1 \right] \right]^{\frac{1}{2}}$

$$\lim_{x \rightarrow 3^-} \frac{1}{|3-x|} + \lim_{x \rightarrow 3^-} \left[\frac{x}{2} - 1 \right]^{\frac{1}{2}}$$

$$\frac{3}{2} - 1$$

$$\frac{1}{2}$$

$$1 + 0 = 1$$

2. Consider the function $g(x)$ graphed in the accompanying figure. Indicate the kind of discontinuity at the points -6 , -3 , 3 .

$x = -6$ infinity discont.

$x = -3$ Removable discont.

$x = 3$ Jump discont.

