

# King Fahd University of Petroleum & Minerals

## Math 101 - Sec. 18

Dr. Jawad Y. Abuhlail

**Quiz # 2**

**Semester 041**

**Time: 10 minutes**

**Name:**

**ID #:**

**Section #:**

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Draw a possible graph of a function  $f(x)$  such that:

1.  $f(3) = -3$
2.  $f(4) = 1$
3.  $\lim_{x \rightarrow 4^+} = 0$
4.  $\lim_{x \rightarrow 2^-} = 1$
5.  $\lim_{x \rightarrow 3} = 1$
6.  $f(x)$  has vertical asymptotes  $x = 4$  and  $x = 2$
7.  $f(x)$  has horizontal asymptotes  $y = 3$  and  $y = -3$