9. $f(x) = |x+2| - 3$

$$\frac{d}{dx}(|u|) = \frac{u}{|u|} \cdot u'$$

① $f'(x) = \frac{x+2}{|x+2|} \cdot \frac{d}{dx}(x+2)$

$= \frac{x+2}{|x+2|}$

② $x+2=0 \qquad |x+2|=0$

$x=-2$

③

$-\infty$	$x=-2$	∞
$x=-3$	$x=0$	
$\frac{x+2}{+}$	$\frac{x+2}{+}$	

REL MIN

DEC $(-\infty, -2)$

INC $(-2, \infty)$

④ REL MIN : $x=-2$

$y = |x+2| - 3$

$y = |-2+2| - 3$

$y = -3$

REL MIN $(-2, -3)$