Interval	$(-\infty, -\sqrt{2})$	$\left(-\sqrt{2}, -\frac{\sqrt{6}}{3}\right)$	$\left(-\frac{\sqrt{6}}{3},0\right)$	$\left(0,\frac{\sqrt{6}}{3}\right)$	$\left(\frac{\sqrt{6}}{3},\sqrt{2}\right)$	$(\sqrt{2}, \infty)$
Sign $f'(x)$	-	+	+	_	1	+
Sign $f''(x)$	+	+	_	_	+	+