

x	$-\infty$	$\frac{1}{2}$	1	$+\infty$
$-2x^2 + 3x - 1$ $\Delta > 0$		-	+	-

x	$-\infty$	$+\infty$
$2x^2 + 3x + 4$ $\Delta < 0$	+	

x	$-\infty$	$\frac{\sqrt{6}}{2}$	$+\infty$
$2x^2 - 2\sqrt{6}x + 3$ $\Delta = 0$	+		

$$\begin{array}{r}
 2x^3 - 5x^2 + x + 2 \\
 -2x^3 + 2x^2 \\
 \hline
 -3x^2 + x + 2 \\
 3x^2 - 3x \\
 \hline
 -2x + 2 \\
 2x - 2 \\
 \hline
 0 \quad 0
 \end{array}$$

$$\begin{array}{r}
 x - 1 \\
 2x^2 - 3x - 2
 \end{array}$$

$$2x^3 - 5x^2 + x + 2 = (x - 1)(2x^2 - 3x - 2)$$

x	$-\infty$	$-\frac{1}{2}$	1	2	$+\infty$
$x - 1$		-	-	+	+
$2x^2 - 3x - 2$	+	0	-	-	+
$2x^3 - 5x^2 + x + 2$	-	0	+	-	+