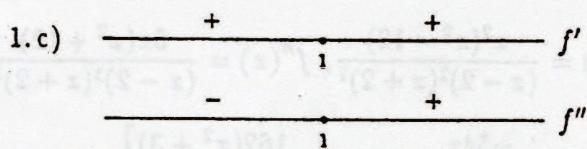
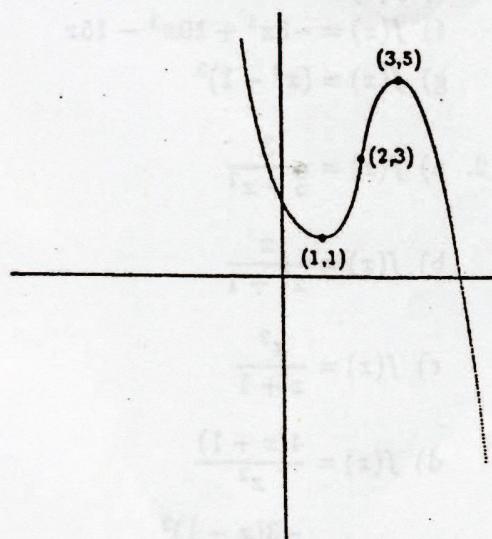
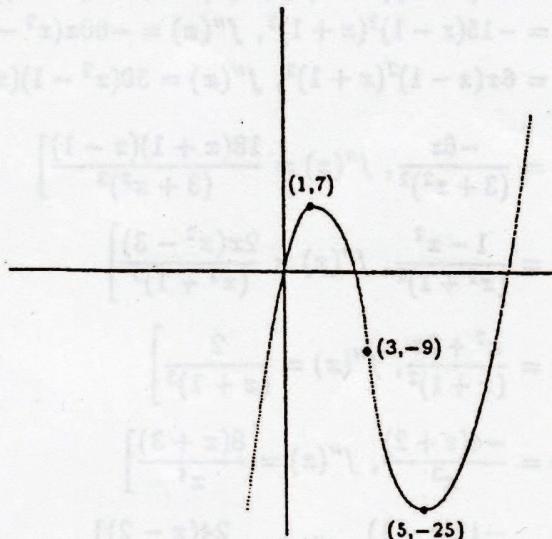


loc max: $(1, 7)$
loc min: $(5, -25)$
infl pts: $(3, -9)$

dom: $(-\infty, \infty)$
range: $(-\infty, \infty)$

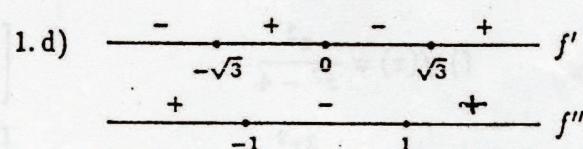
loc max: $(3, 5)$
loc min: $(1, 1)$
infl pts: $(2, 3)$

dom: $(-\infty, \infty)$
range: $(-\infty, \infty)$



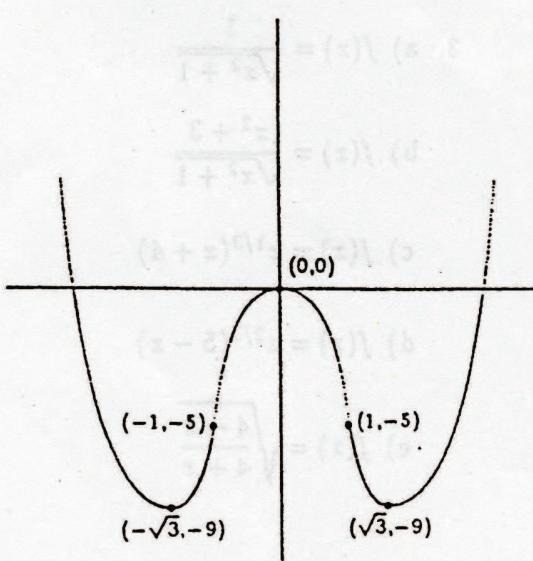
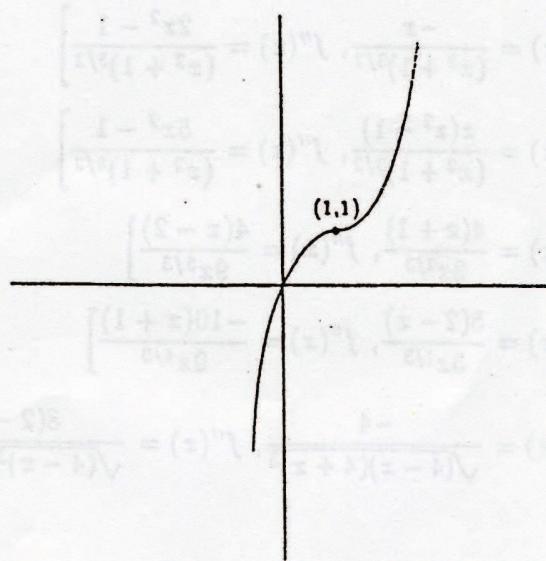
loc max: none
loc min: none
infl pts: $(1, 1)$

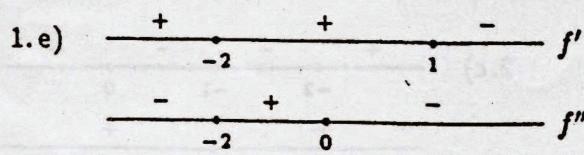
dom: $(-\infty, \infty)$
range: $(-\infty, \infty)$



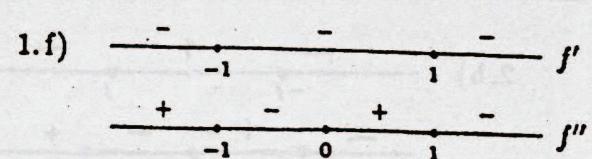
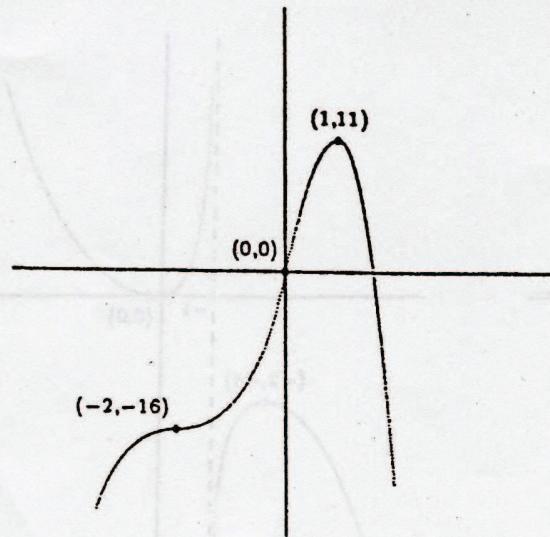
loc max: $(0, 0)$
loc min: $(-\sqrt{3}, -9), (\sqrt{3}, -9)$
infl pts: $(-1, -5), (1, -5)$

dom: $(-\infty, \infty)$
range: $[-9, \infty)$

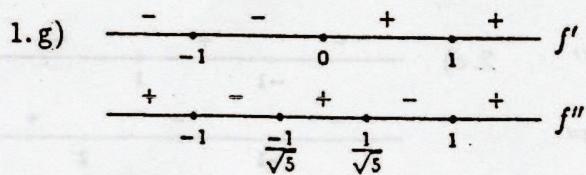
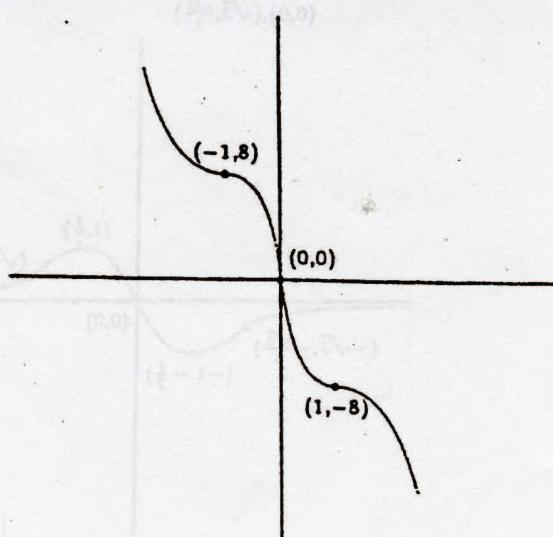




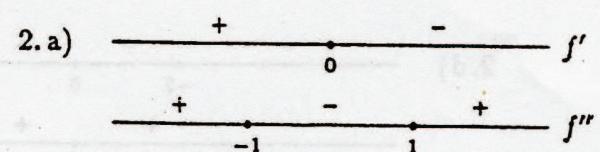
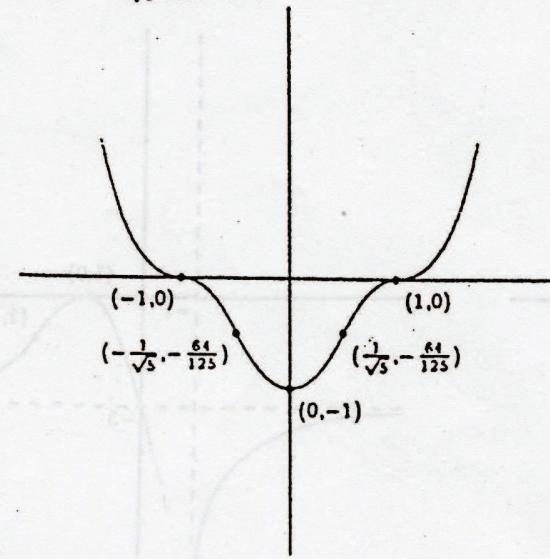
loc max: $(1, 11)$
loc min: none
infl pts: $(0, 0), (-2, -16)$
dom: $(-\infty, \infty)$
range: $(-\infty, 11]$



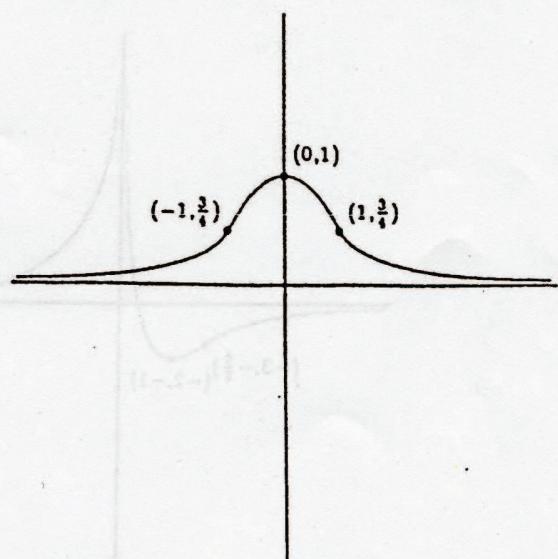
loc max: none
loc min: none
infl pts: $(-1, 8), (1, -8)$
dom: $(-\infty, \infty)$
range: $(-\infty, \infty)$

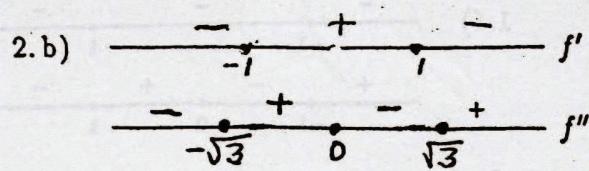


loc max: none
loc min: $(0, -1)$
infl pts: $(-1, 0), (\frac{-1}{\sqrt{5}}, \frac{-64}{125}), (\frac{1}{\sqrt{5}}, \frac{-64}{125}), (1, 0)$
dom: $(-\infty, \infty)$
range: $[-1, \infty)$

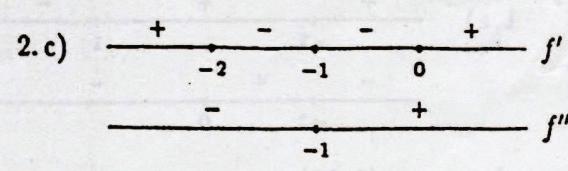
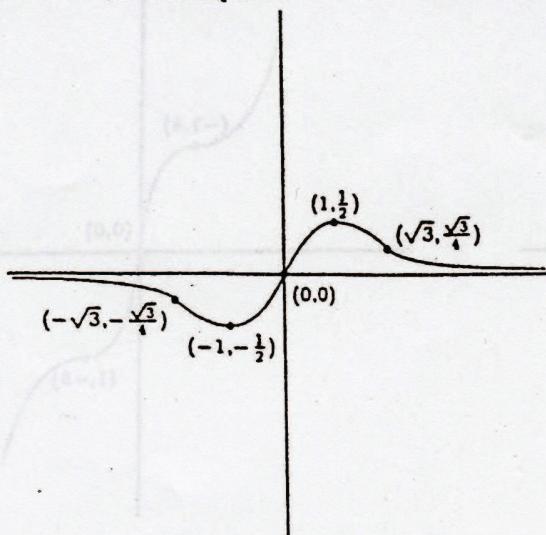


loc max: $(0, 1)$
loc min: none
infl pts: $(-1, \frac{3}{4}), (1, \frac{3}{4})$
dom: $(-\infty, \infty)$
range: $(0, 1]$



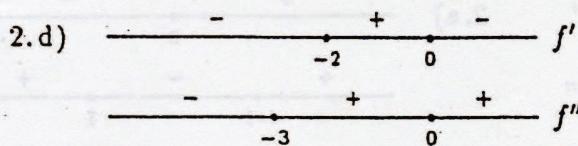
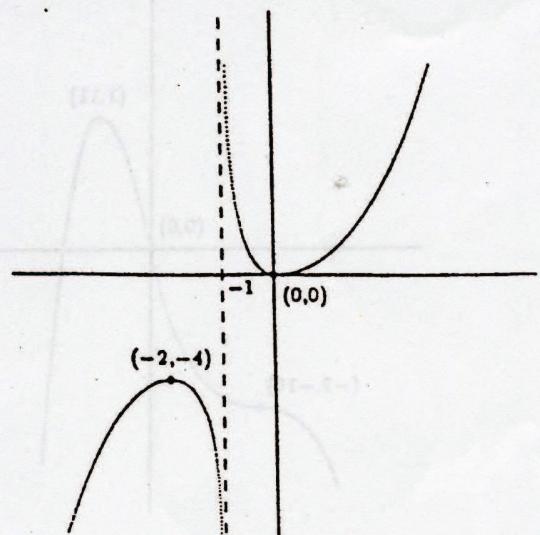


loc max: $(1, \frac{1}{2})$
 loc min: $(-1, -\frac{1}{2})$
 infl pts: $(-\sqrt{3}, -\frac{\sqrt{3}}{4}), (0,0), (\sqrt{3}, \frac{\sqrt{3}}{4})$

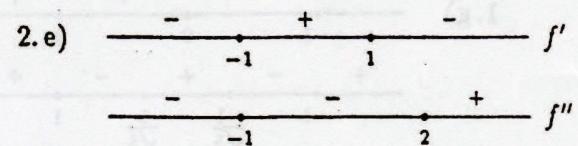
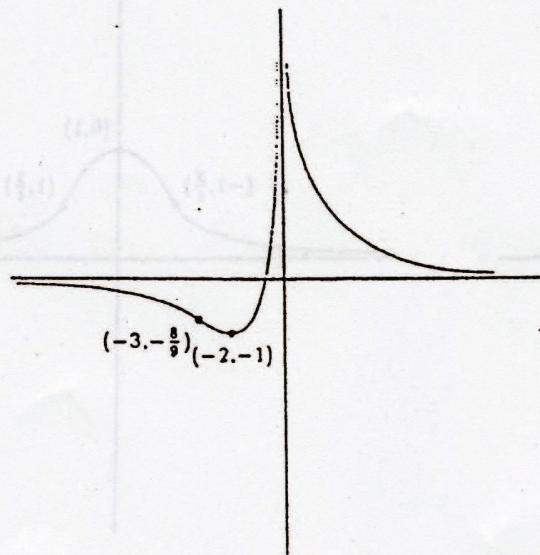


loc max: $(-2, -4)$
 loc min: $(0, 0)$
 infl pts: none

dom: $(-\infty, -1) \cup (-1, \infty)$
 range: $(-\infty, -4] \cup [0, \infty)$

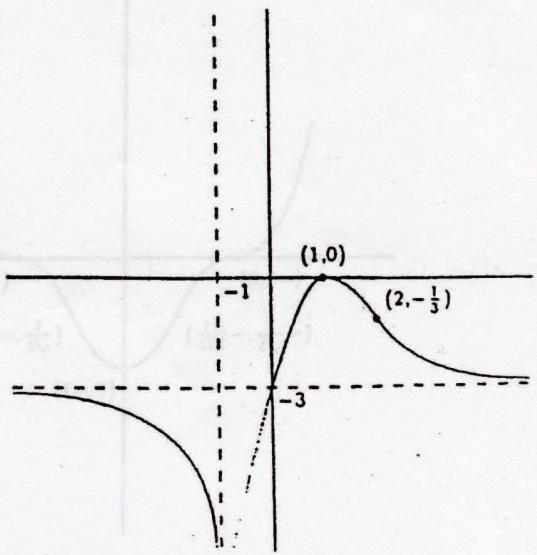


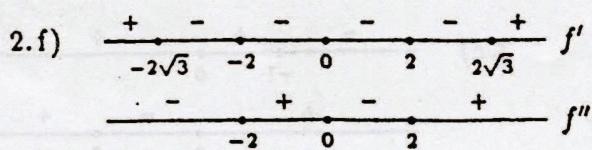
loc max: none
 loc min: $(-2, -1)$
 infl pts: $(3, -\frac{8}{9})$



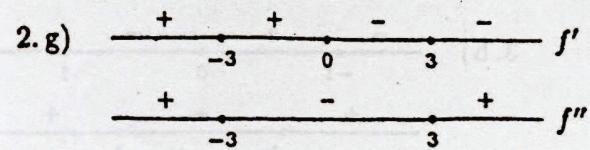
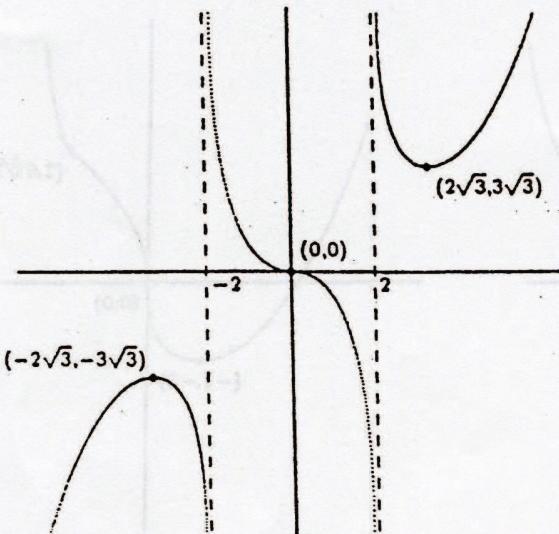
loc max: $(1, 0)$
 loc min: none
 infl pts: $(2, -\frac{1}{3})$

dom: $\{x \neq -1\}$
 range: $(\infty, 0]$

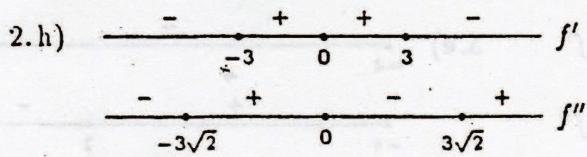
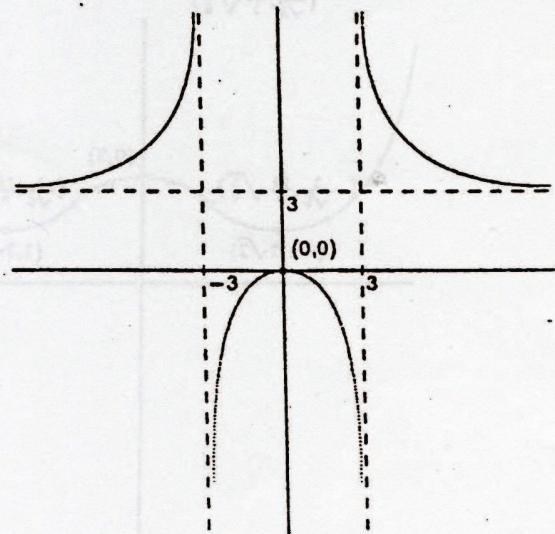




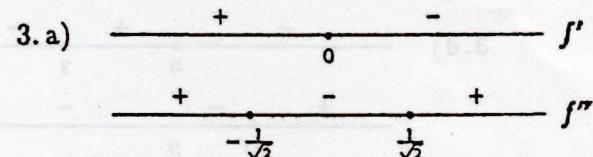
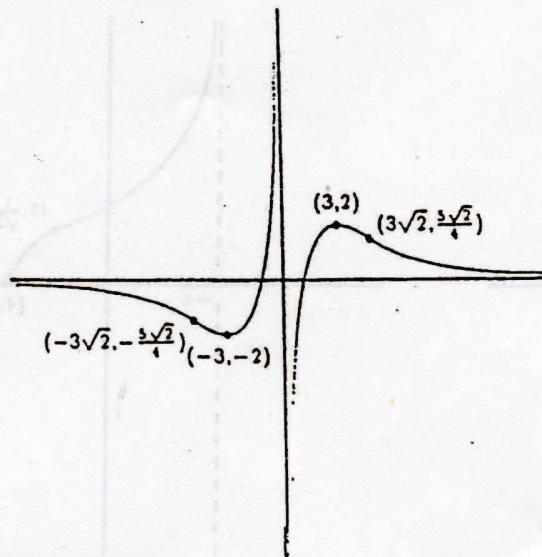
loc max: $(-2\sqrt{3}, -3\sqrt{3})$ dom: $\{x \neq -2, 2\}$
 loc min: $(2\sqrt{3}, 3\sqrt{3})$ range: $(-\infty, \infty)$
 infl pts: $(0, 0)$



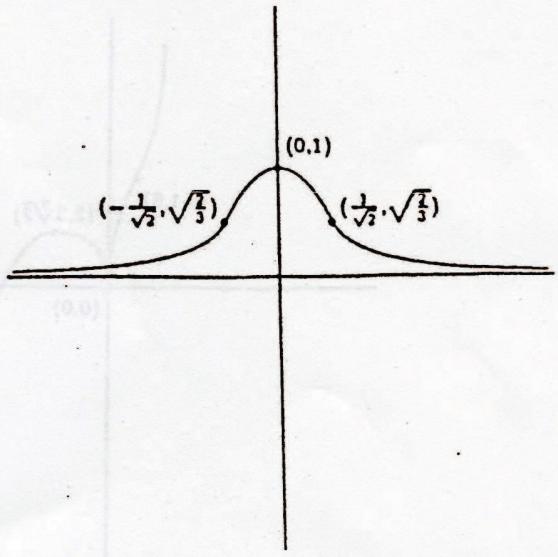
loc max: $(0, 0)$ dom: $\{x \neq -3, 3\}$
 loc min: none range: $(-\infty, 0) \cup (3, \infty)$
 infl pts: none



loc max: $(3, 2)$ dom: $\{x \neq 0\}$
 loc min: $(-3, -2)$ range: $(-\infty, \infty)$
 infl pts: $(-3\sqrt{2}, -\frac{5\sqrt{2}}{4}), (3\sqrt{2}, \frac{5\sqrt{2}}{4})$

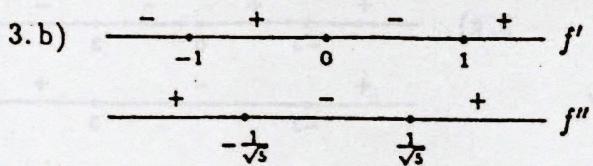


loc max: $(0, 1)$ dom: $(-\infty, \infty)$
 loc min: none range: $(0, 1)$
 infl pts: $(-\frac{1}{2}, -\sqrt{\frac{1}{3}}), (\frac{1}{2}, \sqrt{\frac{1}{3}})$

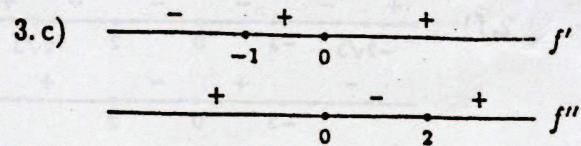
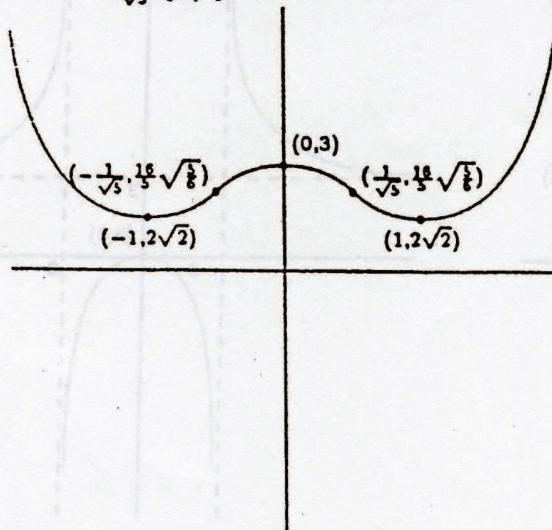


Answers

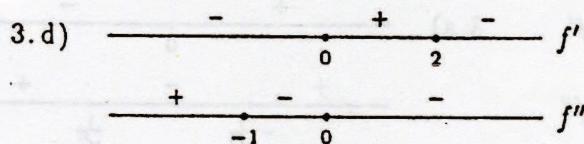
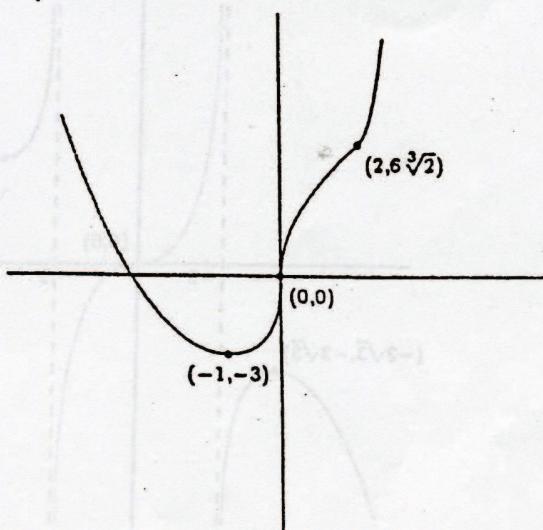
6



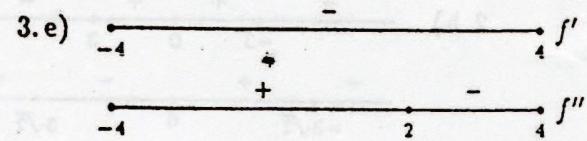
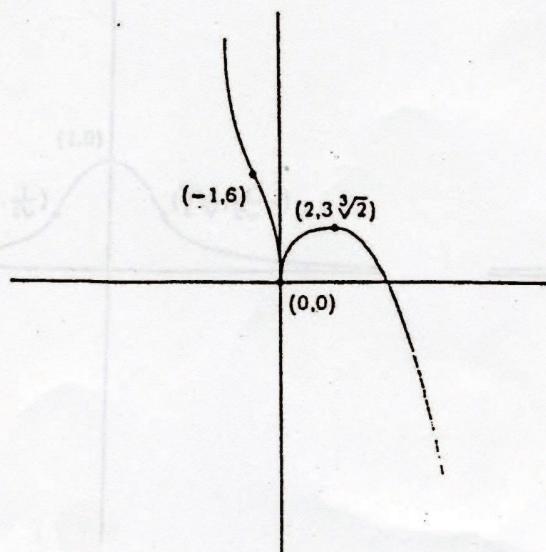
loc max: $(0, 3)$
 loc min: $(-1, 2\sqrt{2}), (1, 2\sqrt{2})$
 infl pts: $(-\frac{1}{\sqrt{5}}, \frac{16}{5}\sqrt{\frac{1}{5}}),$
 $(\frac{1}{\sqrt{5}}, \frac{16}{5}\sqrt{\frac{1}{5}})$



loc max: none
 loc min: $(-1, -3)$
 infl pts: $(0, 0), (2, 6\sqrt[3]{2})$
 range: $[-3, \infty)$



loc max: $(2, 3\sqrt[3]{2})$
 loc min: $(0, 0)$
 infl pts: $(-1, 6)$



loc max: none
 loc min: none
 infl pts: $(2, \frac{1}{\sqrt{3}})$
 dom: $(-4, 4]$
 range: $[0, \infty)$

