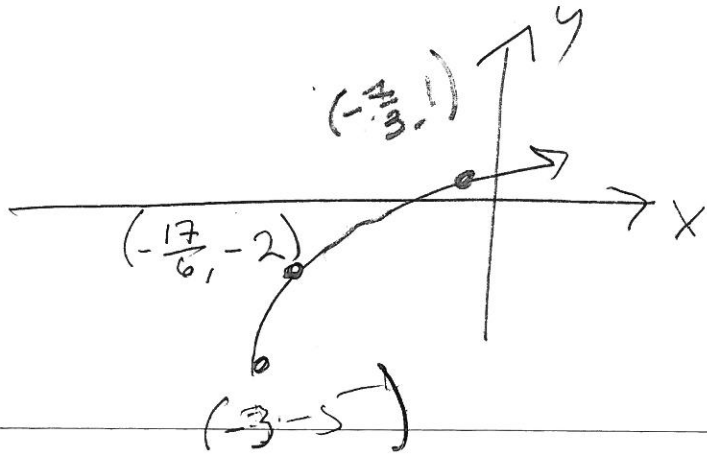
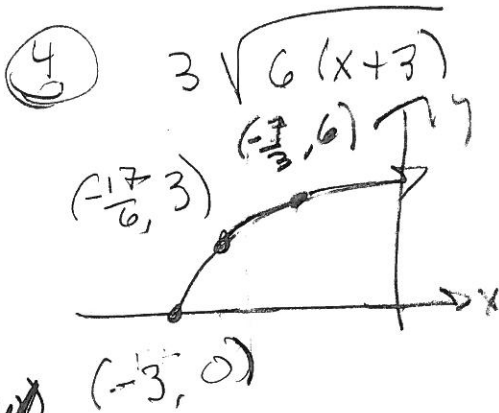
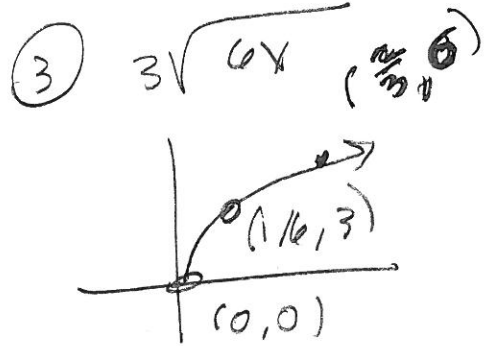
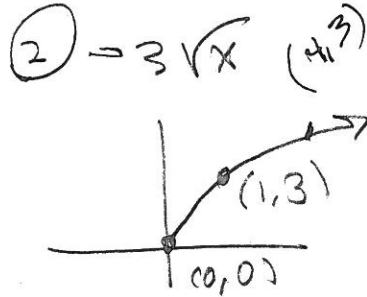
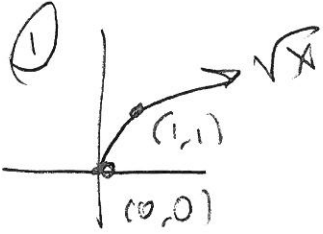
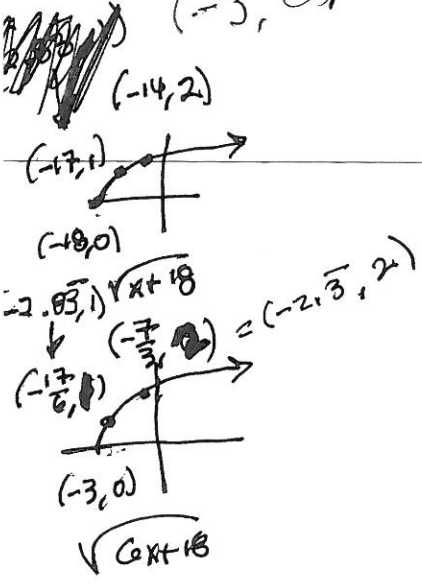


① $g(x) = 3\sqrt{6x+18} - 5$
 $= 3\sqrt{6(x+3)} - 5$

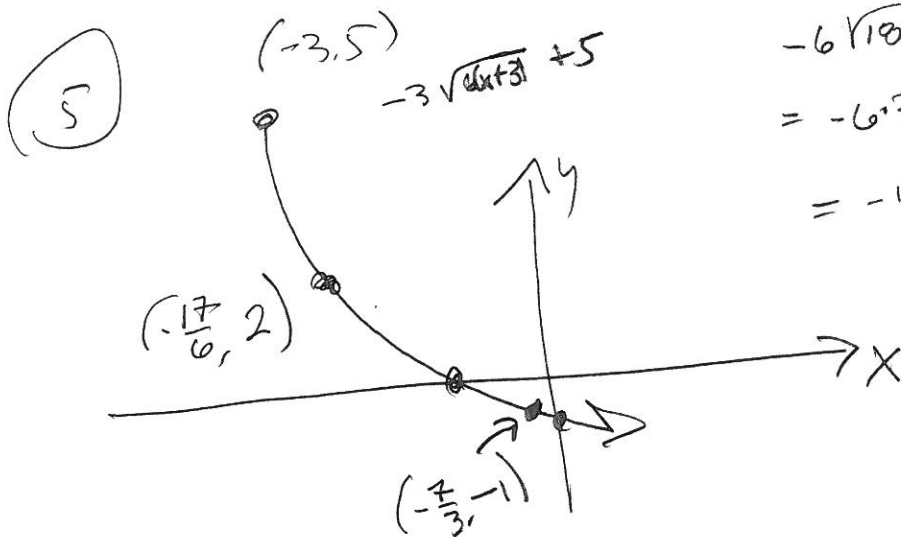
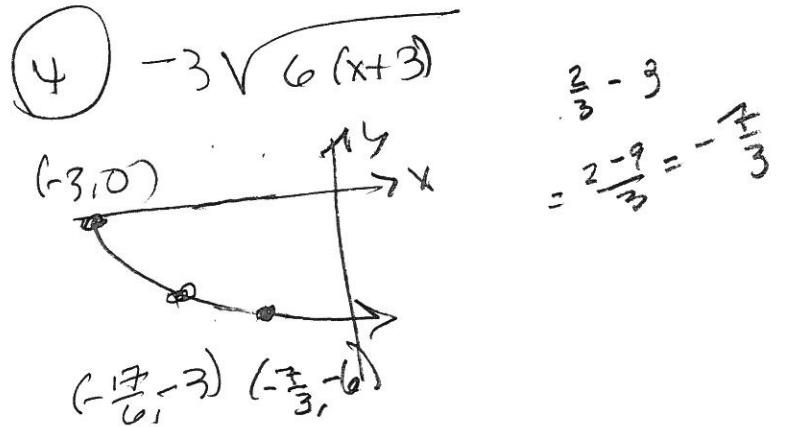
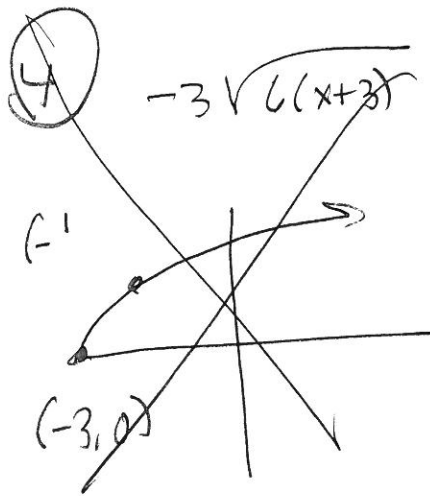
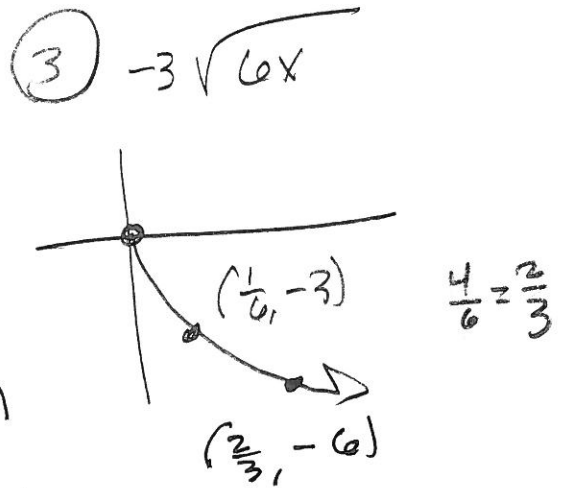
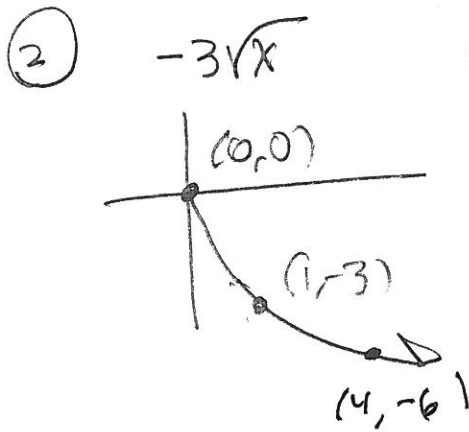
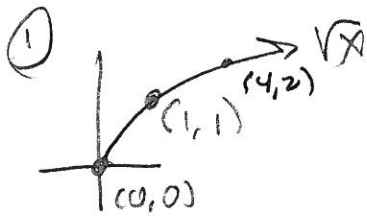


$g(x)$



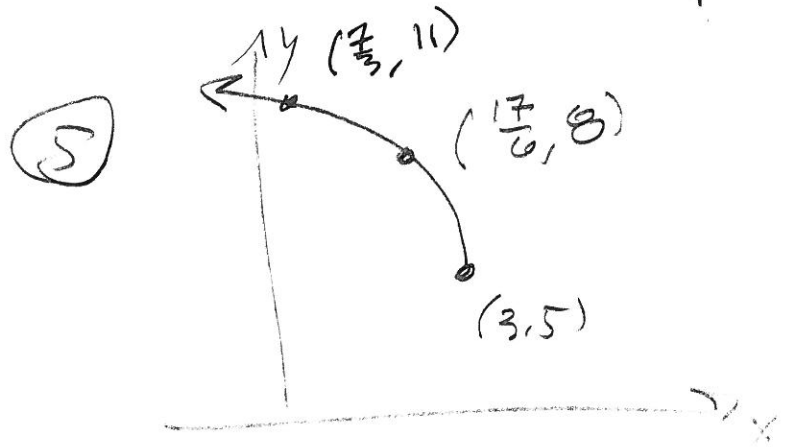
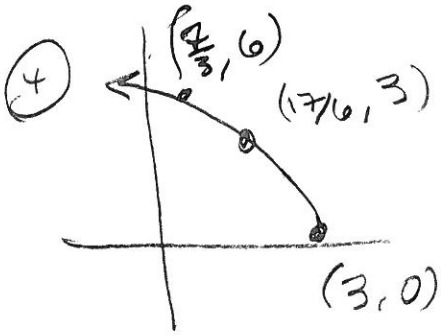
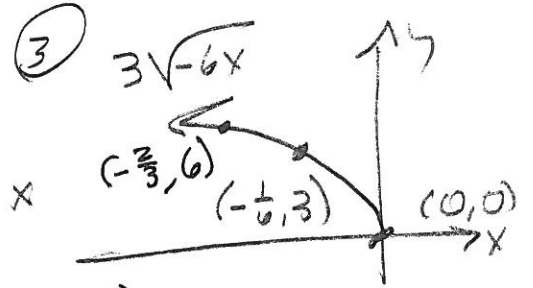
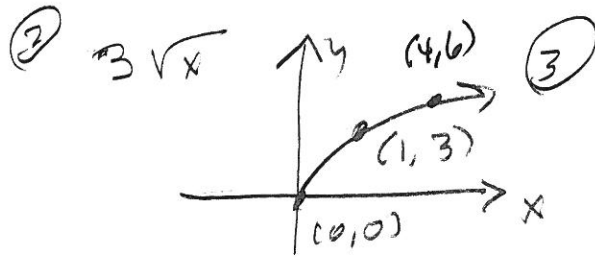
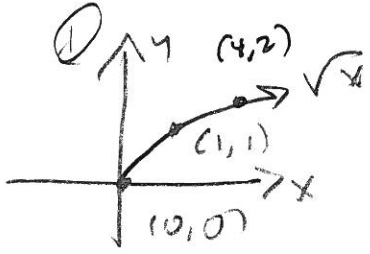
121 WP 2

(2) $g(x) = -3\sqrt{6x+18} + 5$



$$\begin{aligned}
 & -6\sqrt{18} + 5 \\
 & = -6 \cdot 3\sqrt{2} + 5 \\
 & = -18\sqrt{2} + 5 < 0
 \end{aligned}$$

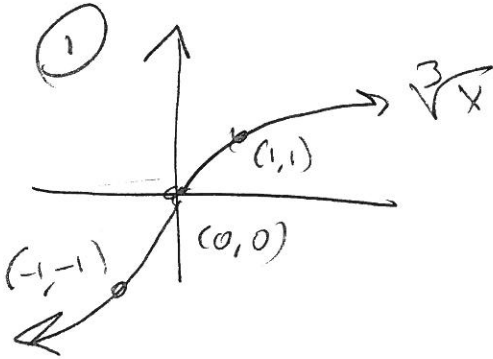
$$\textcircled{5} \quad 3\sqrt{-6x+18} + 5 = 3\sqrt{-6(x-3)} + 5$$



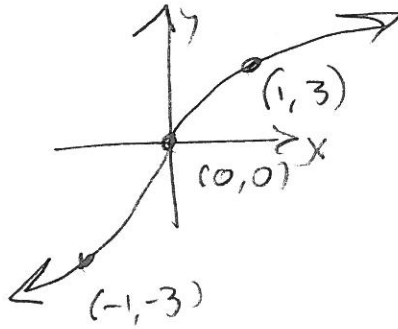
$$3\sqrt{-6(x-3)} + 5$$

(4) $3\sqrt[3]{6x+18} + 5$

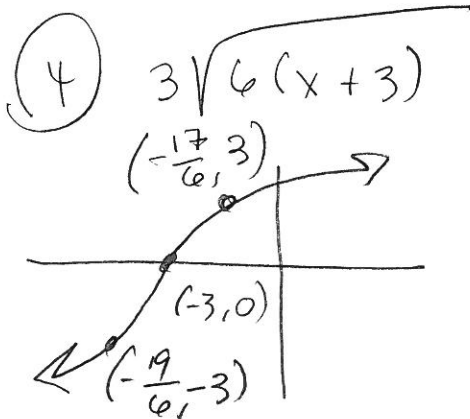
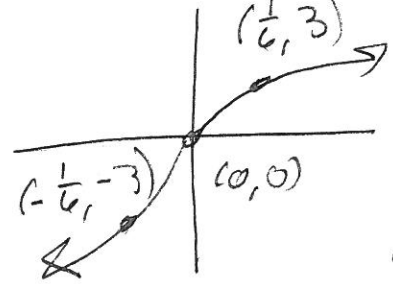
~~1004~~



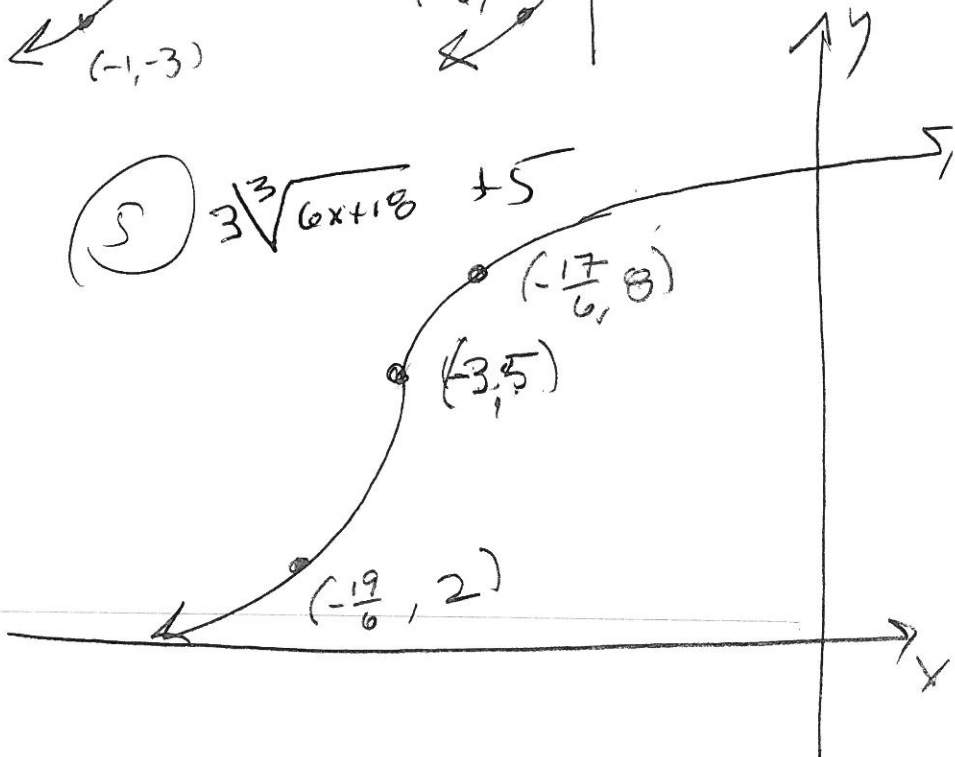
(2) $3\sqrt[3]{x}$



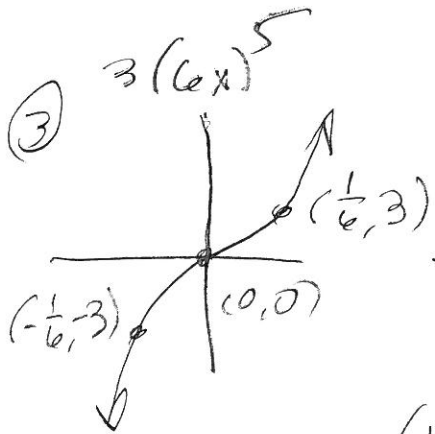
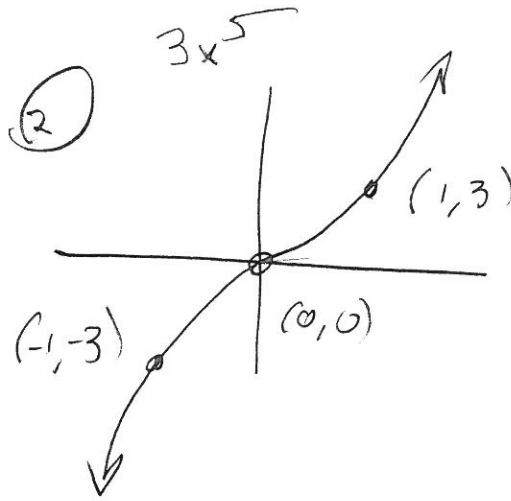
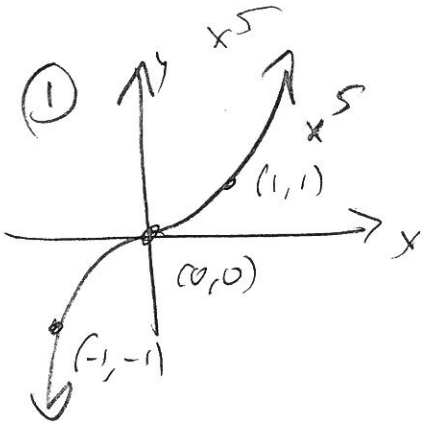
(3) $3\sqrt[3]{6x}$



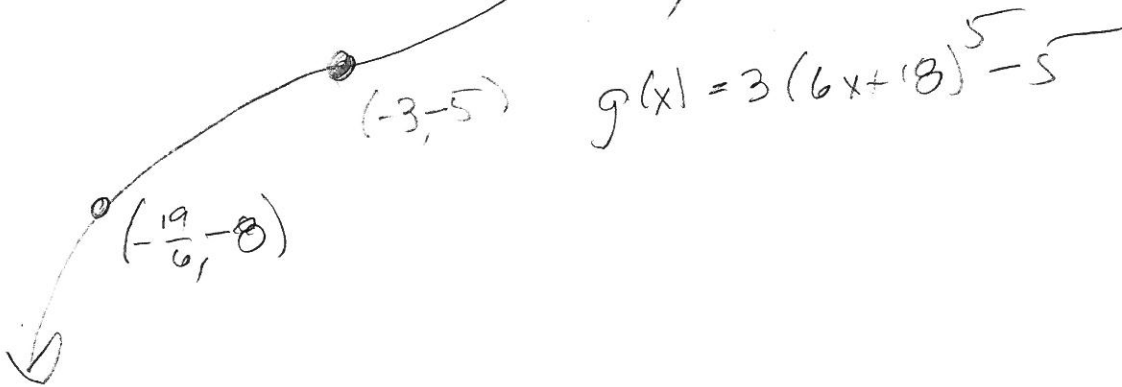
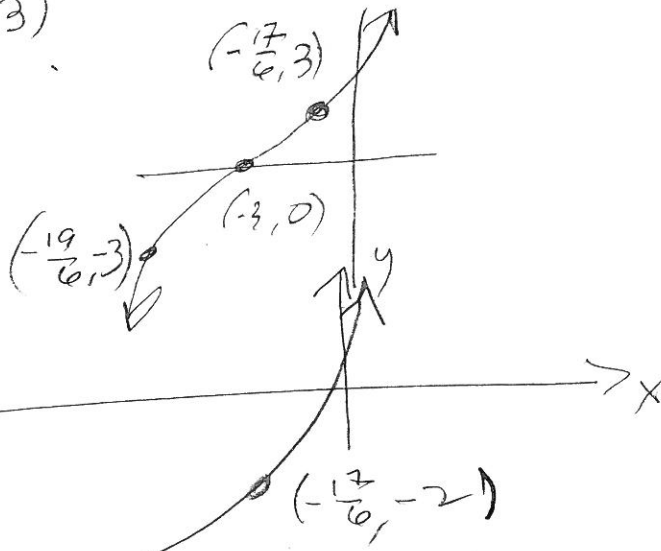
(5) $3\sqrt[3]{6x+18} + 5$



⑤ $3(6x+18)^5 - 5$



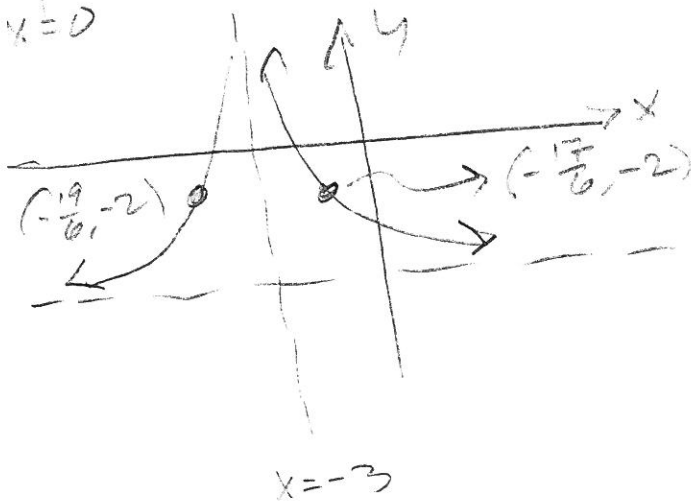
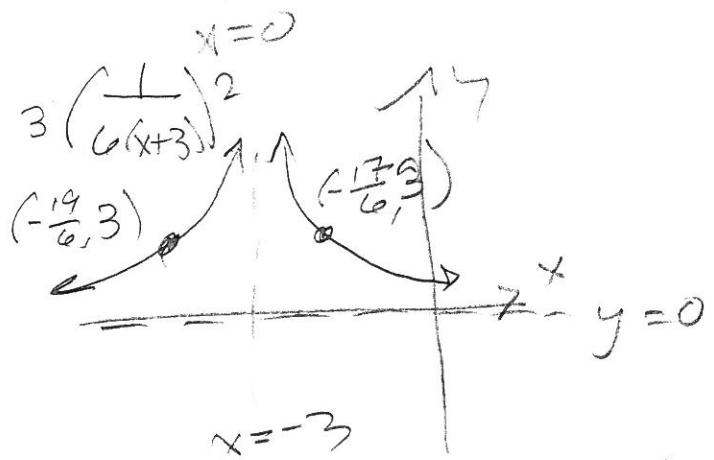
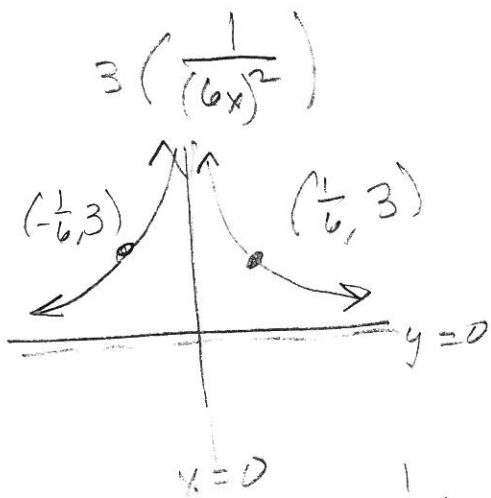
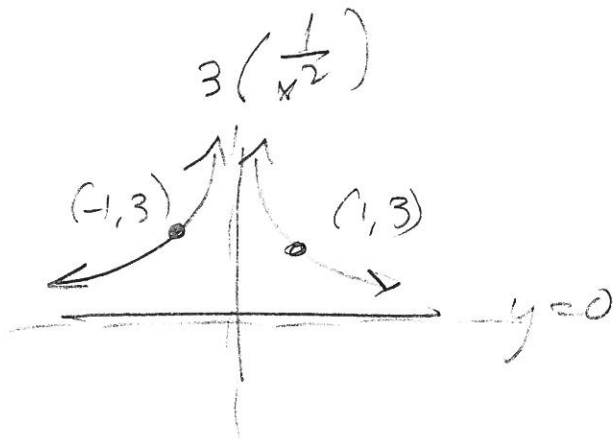
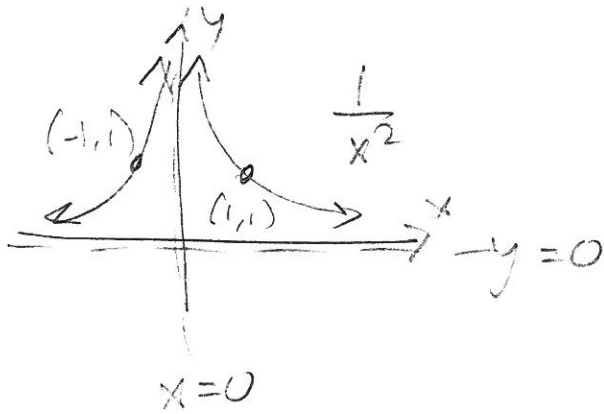
④ $3(6(x+3))^5$



12) WP 2

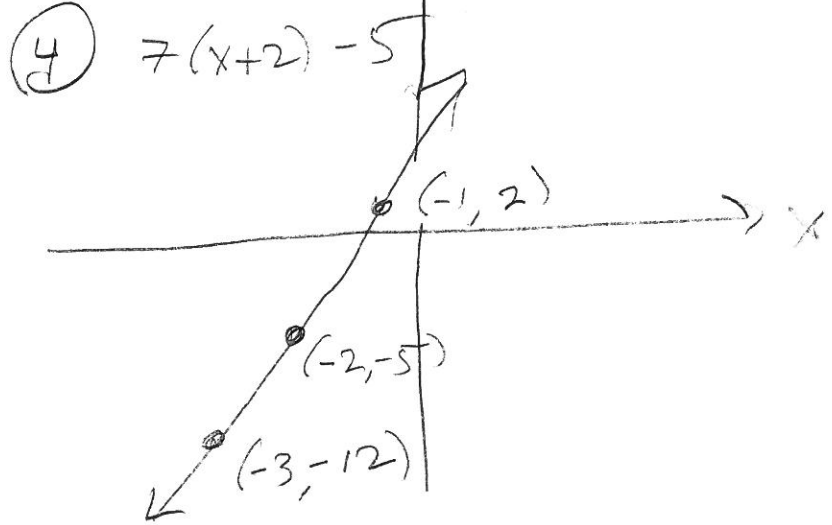
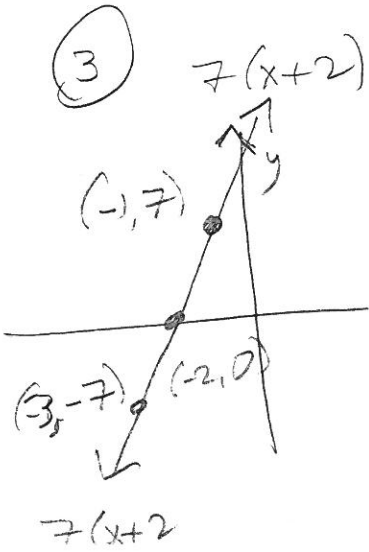
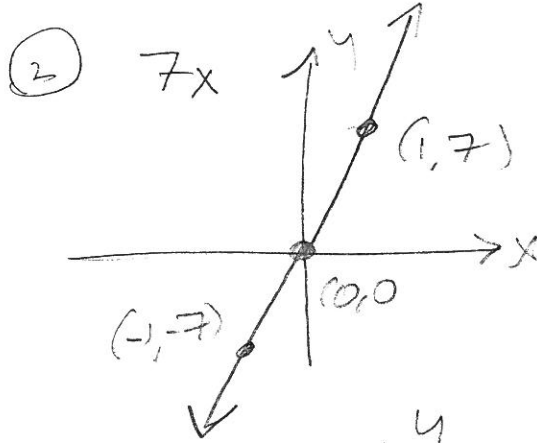
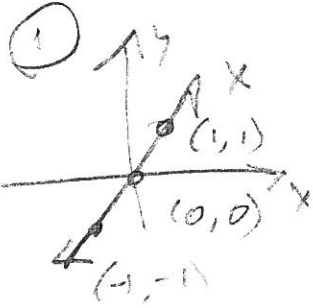
$$\textcircled{6} \quad 3\left(\frac{1}{6x+18}\right)^2 - 5 = 3\left(\frac{1}{(6x+18)^2}\right) - 5$$

$$= 3\left(\frac{1}{(6(x+3))^2}\right) - 5$$



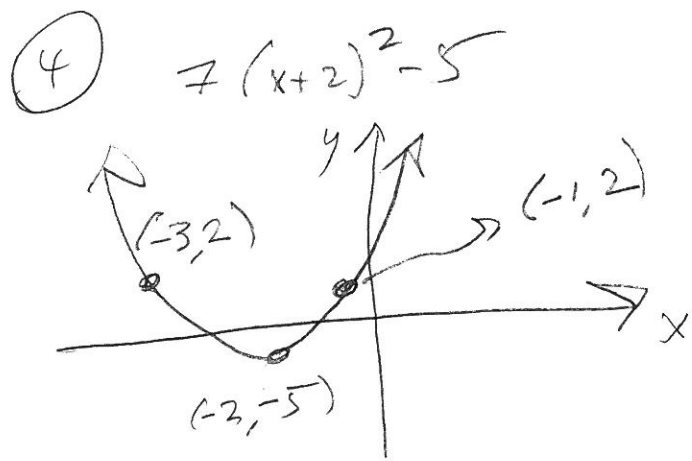
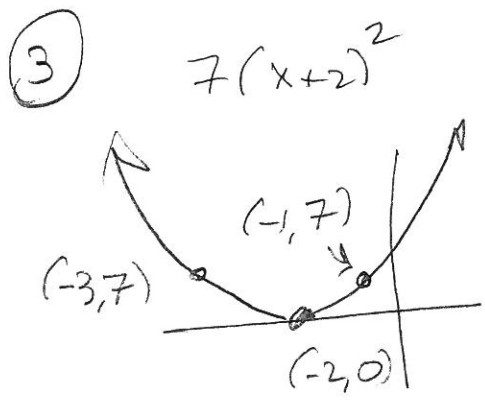
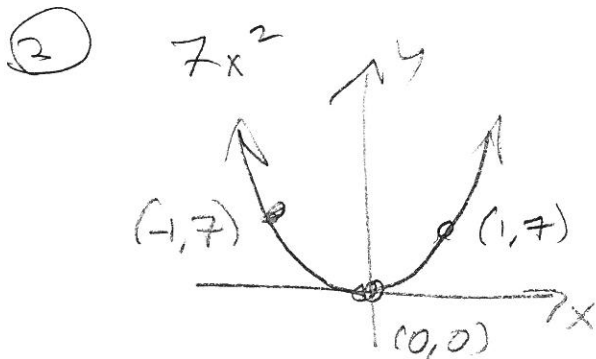
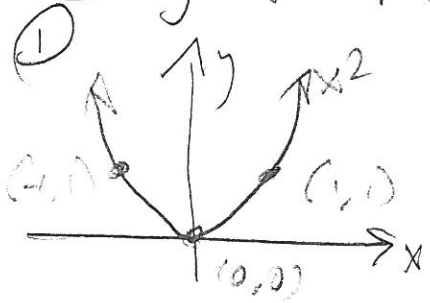
$$g(x) = 3\left(\frac{1}{(6(x+3))^2}\right) - 5$$

⑦ $g(x) = 7(x+2) - 5$



121 WP 2

⑧ $g(x) = 7(x+2)^2 - 5$

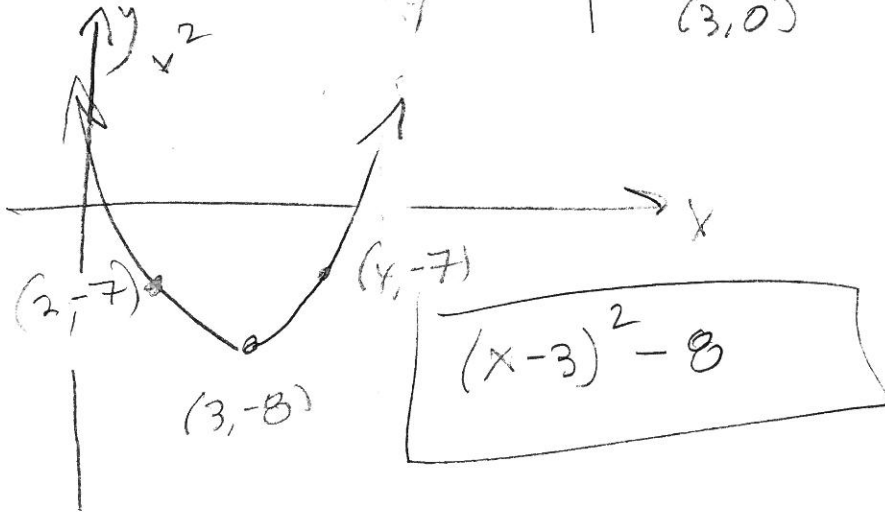
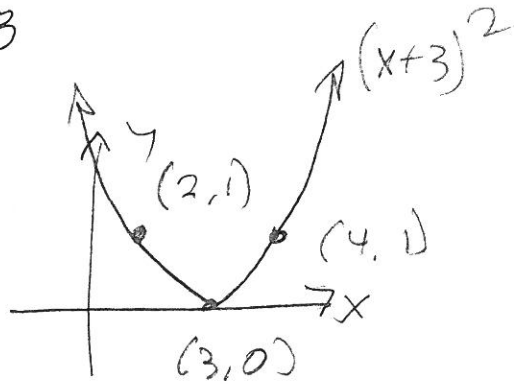
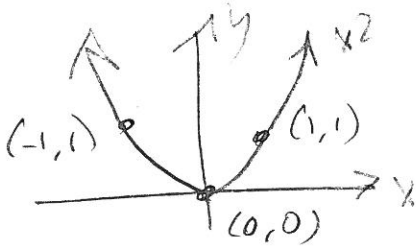


∴ 121 WP 2

$$\textcircled{9} \quad g(x) = x^2 - 6x + 1$$

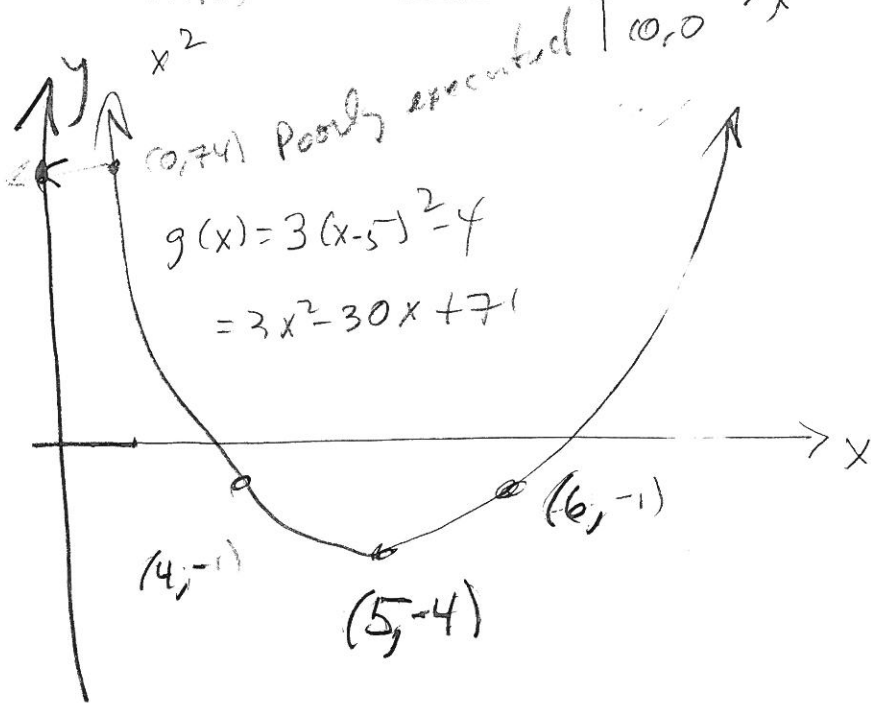
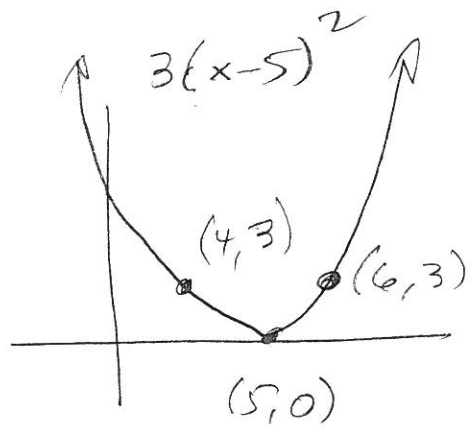
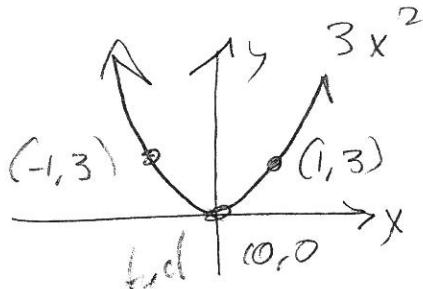
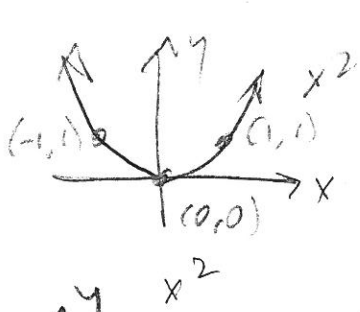
$$= x^2 - 6x + 3^2 - 9 + 1$$

$$= (x-3)^2 - 8$$

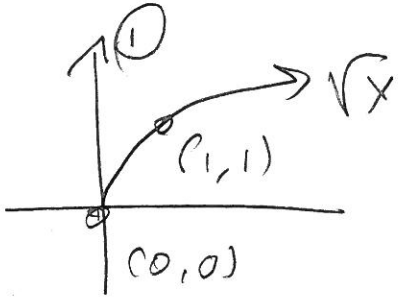


121 WP2

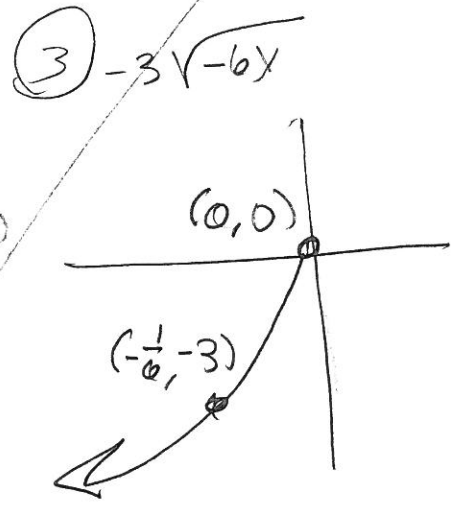
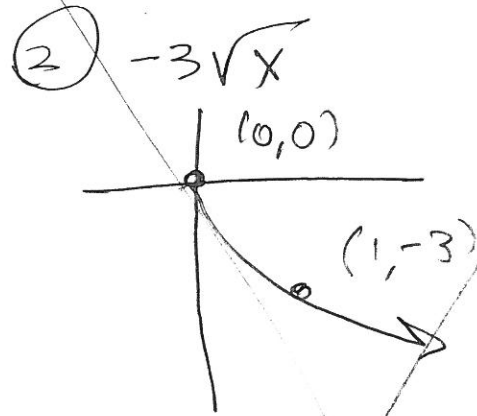
$$\begin{aligned} \textcircled{1} \quad & 3x^2 - 30x + 71 \\ &= 3(x^2 - 10x) + 71 \\ &= 3(x^2 - 10x + 5^2) - 3(5)^2 + 71 \\ &= 3(x-5)^2 - 75 + 71 \\ &= 3(x-5)^2 - 4 \end{aligned}$$



③ $-3\sqrt{-6x+18} + 5$ → NO



NOT QUITE #3



④ $-3\sqrt{-6(x-3)}$

