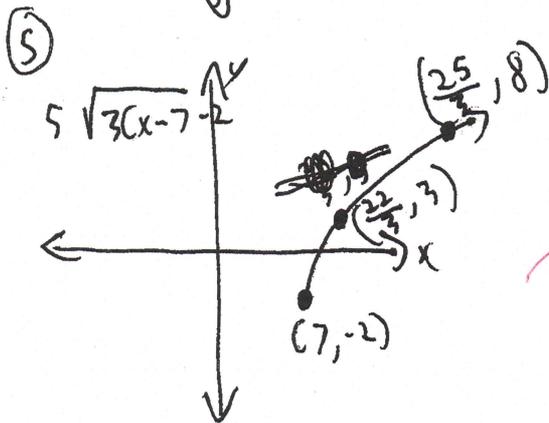
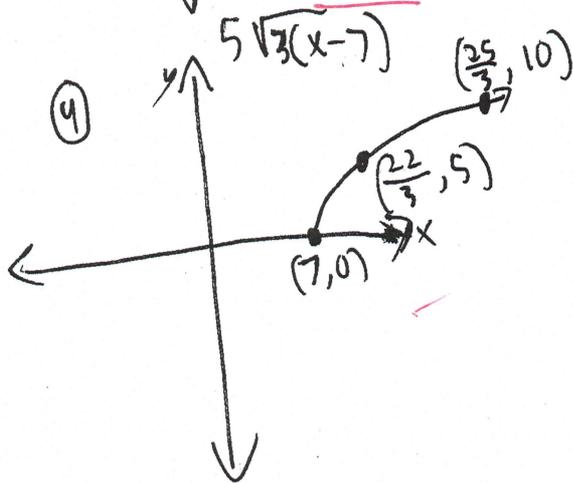
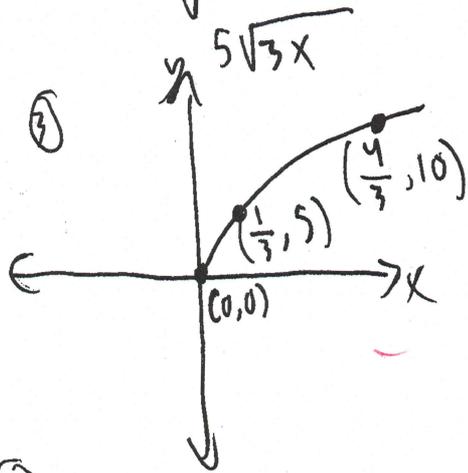
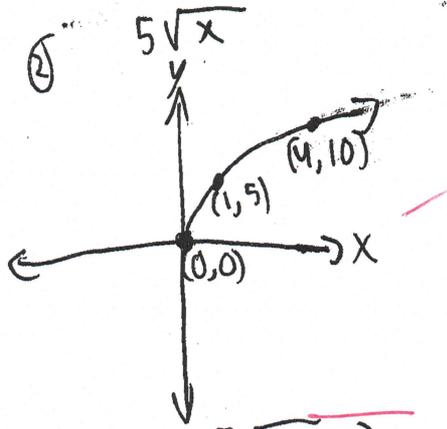
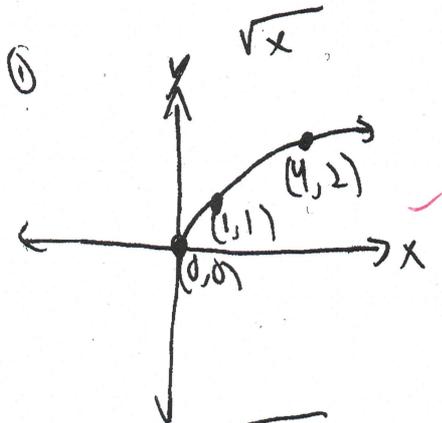


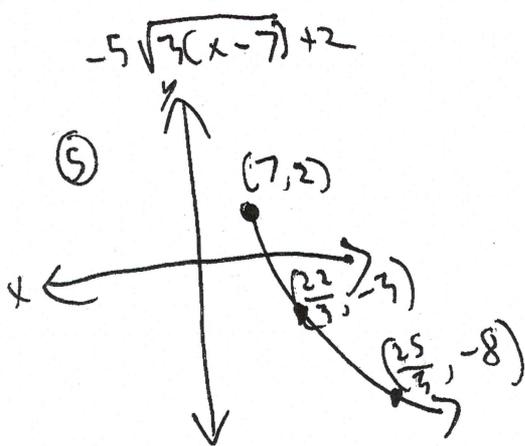
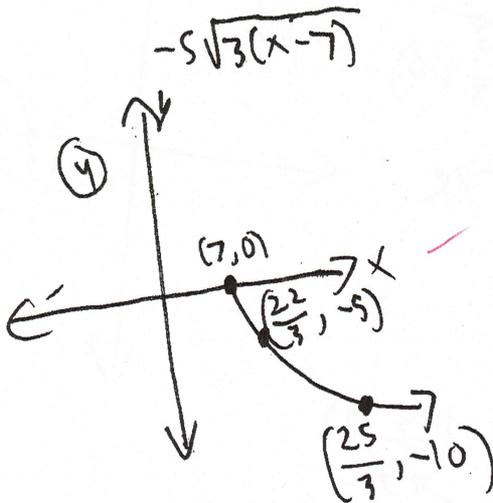
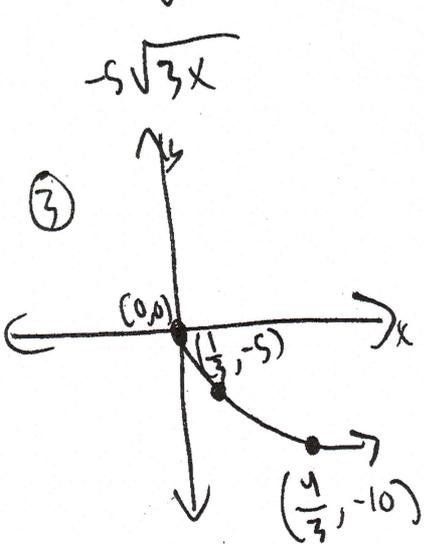
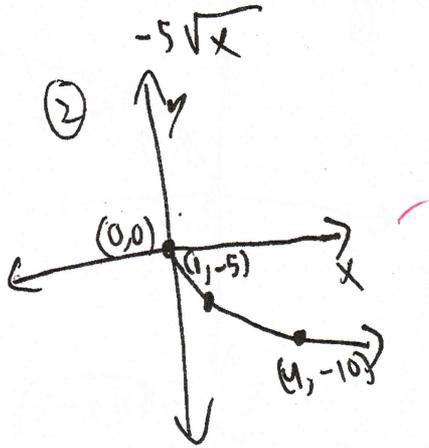
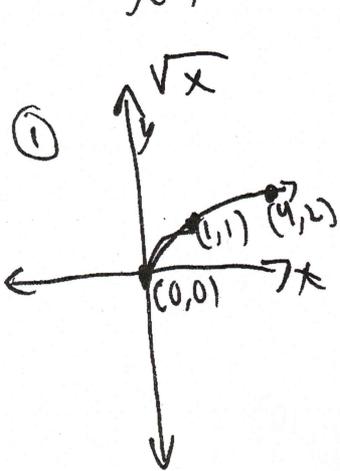
① $g(x) = 5\sqrt{3x-2} - 2$
 $g(x) = 5\sqrt{3(x-7)} - 2$

46.5 good job!
 50



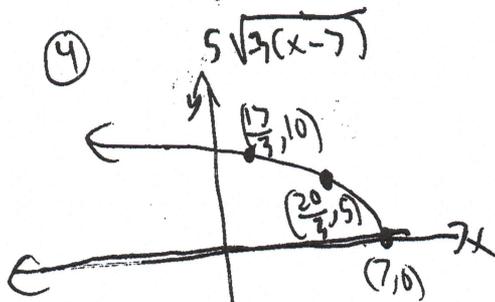
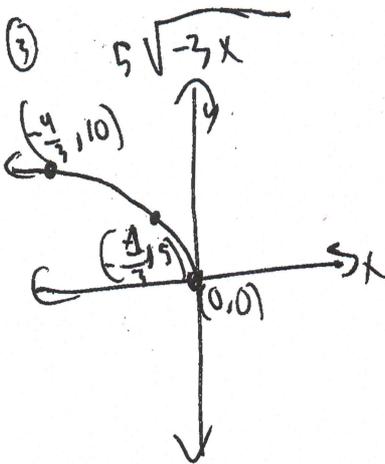
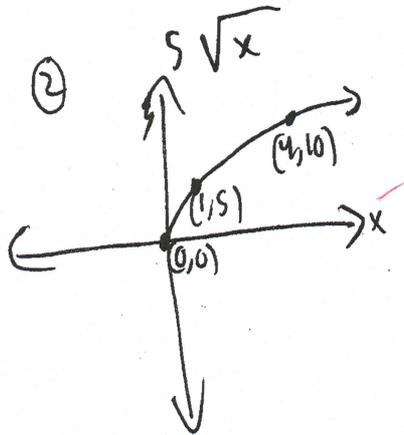
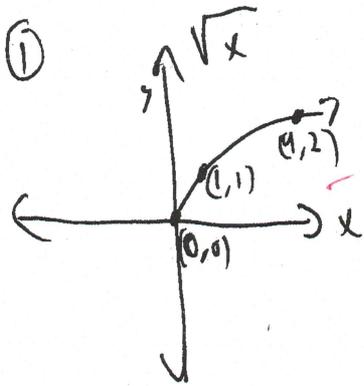
② $G(x) = -5\sqrt{3x-21} + 2$

$g(x) = -5\sqrt{3(x-7)} + 2$



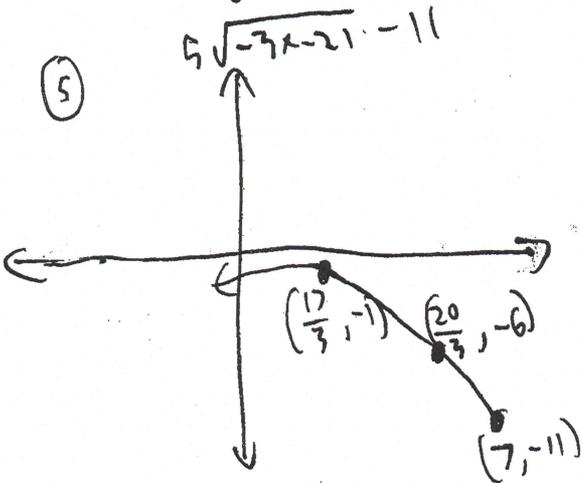
Nice!

③ $6x + 5\sqrt{-3x - 21} - 11$



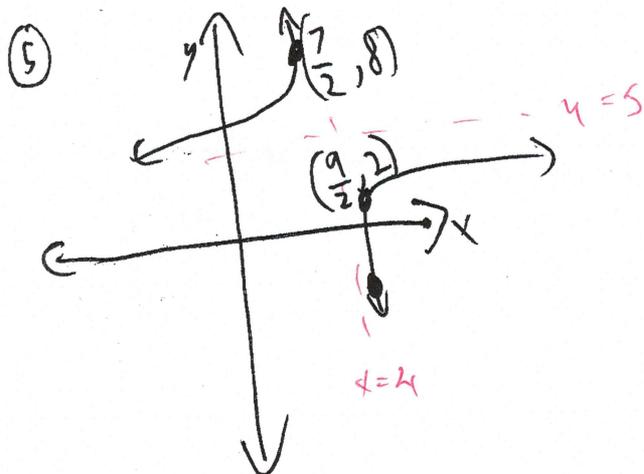
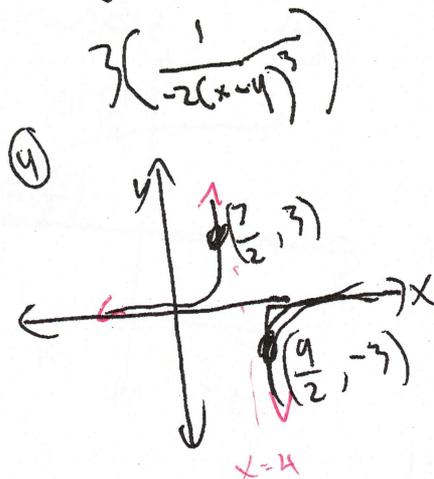
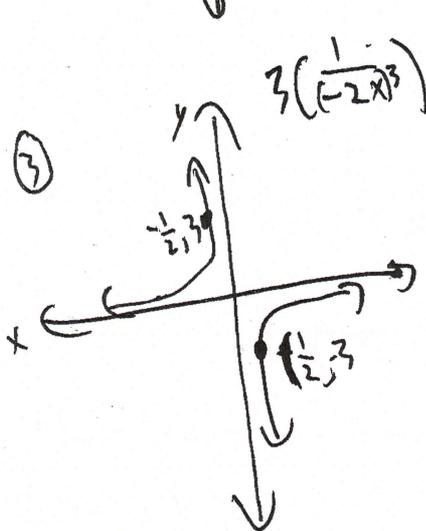
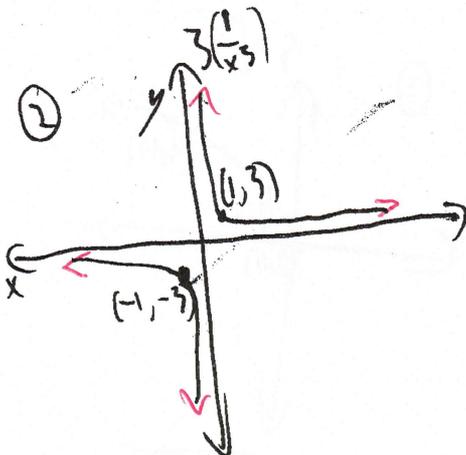
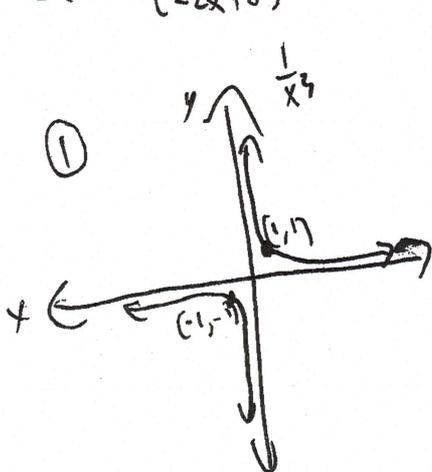
← shift other way

factor: $-3x - 21$
 $= -3(x + 7)$

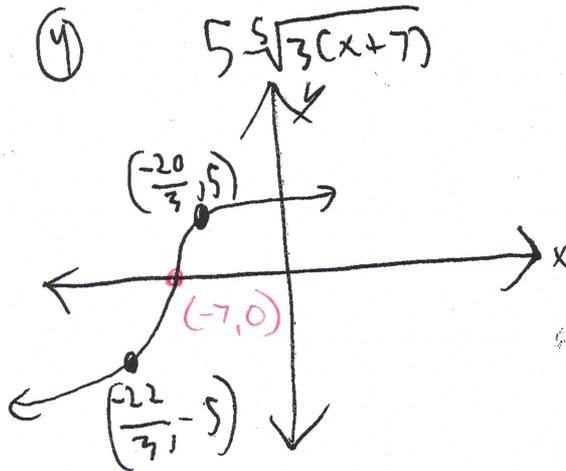
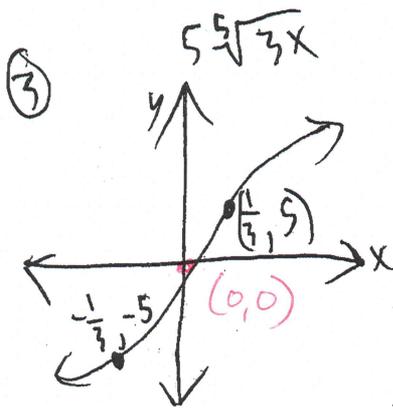
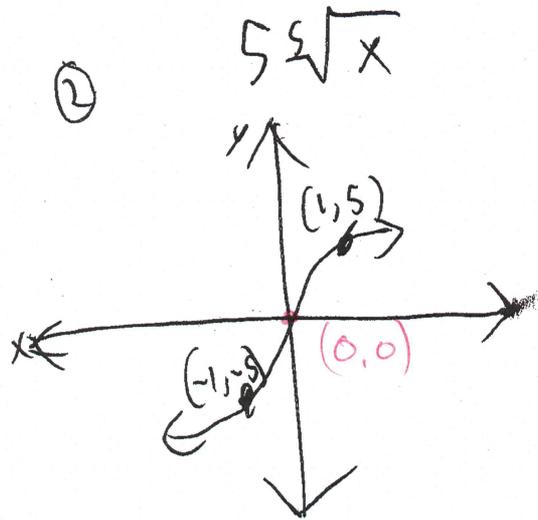
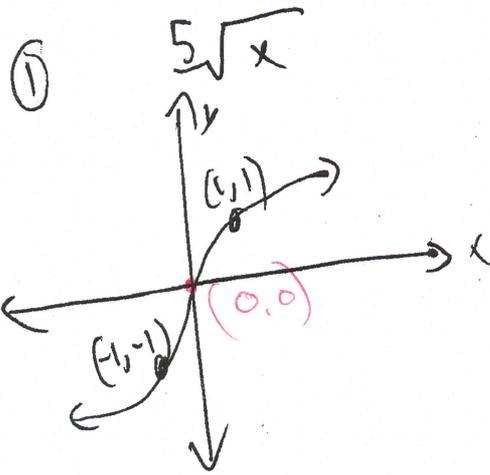


other than the shift
it worked out OK.

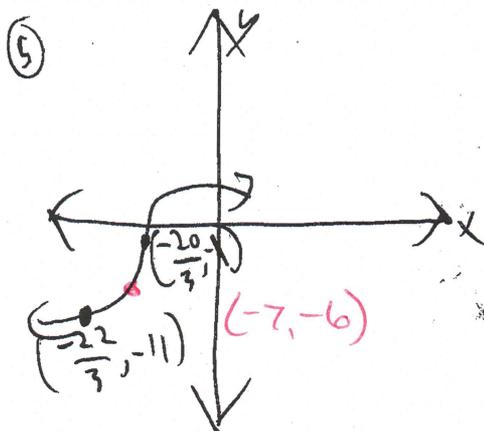
$$(1) f(x) = \frac{3}{(-2x+8)^3} + 5 = 3\left(\frac{1}{(-2x+8)^3}\right) + 5$$



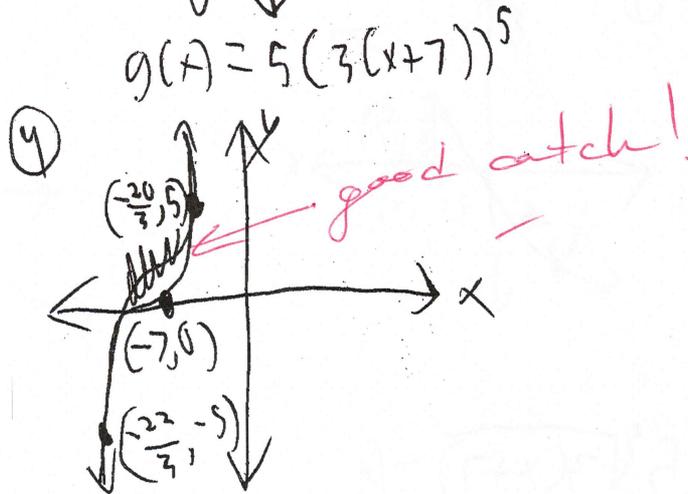
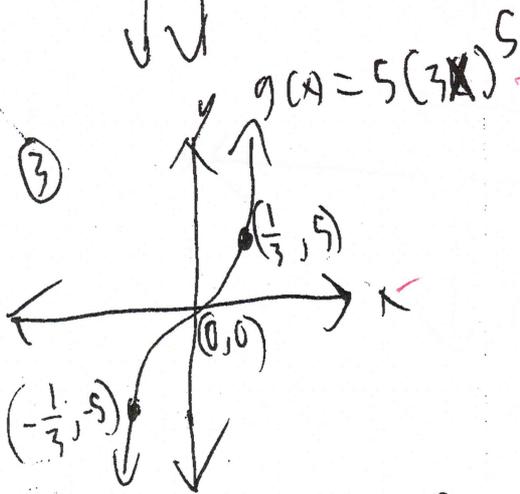
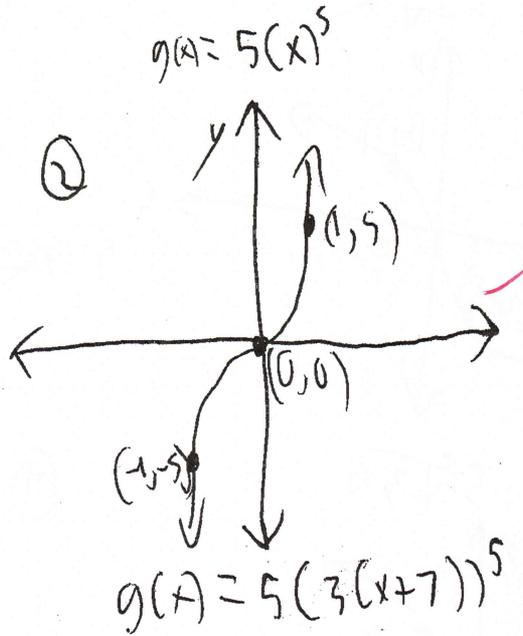
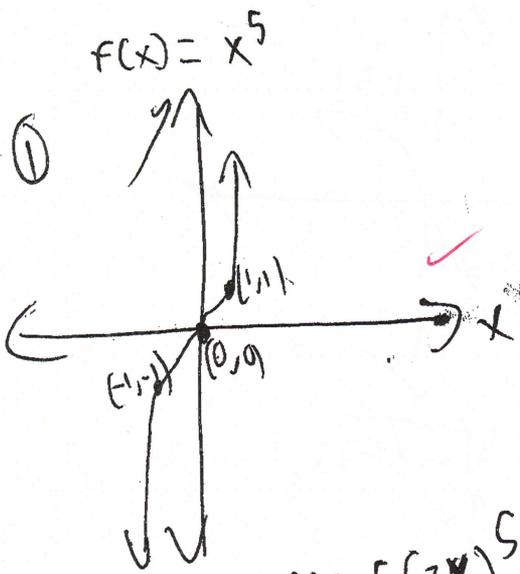
⑤ $g(x) = 5\sqrt[3]{3x+21} - 6$



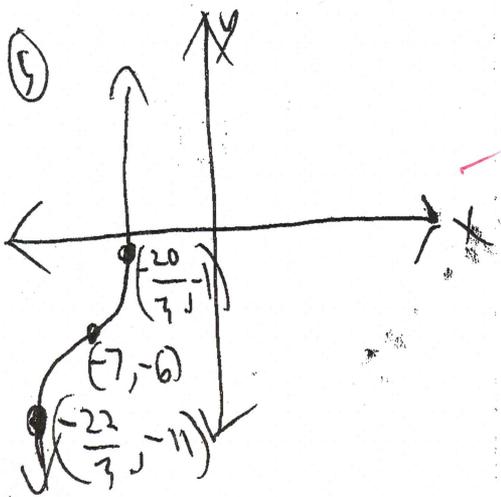
$5\sqrt[3]{3(x+7)} - 6$



⑥ $g(x) = 5(3x+21)^5 - 6$
 $5(3(x+7))^5 - 6$



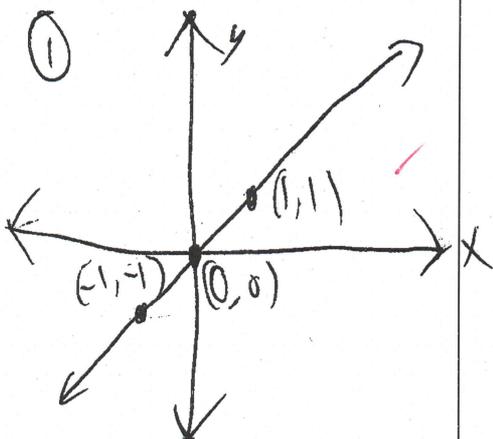
$g(x) = 5(3(x+7))^5 - 6$



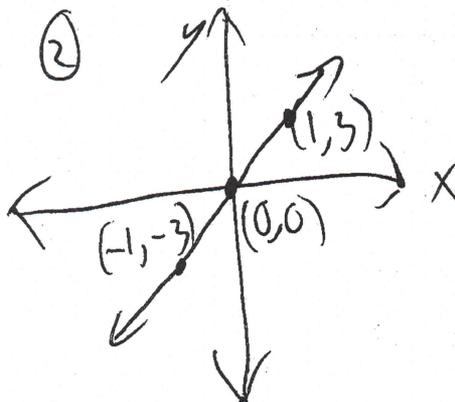
Nice!

⑦ $g(x) = 3(x+5) - 7$

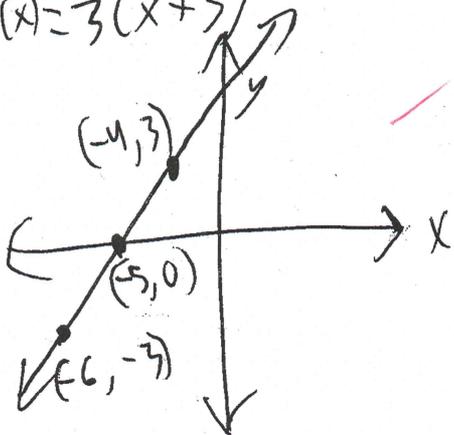
$f(x) = x$



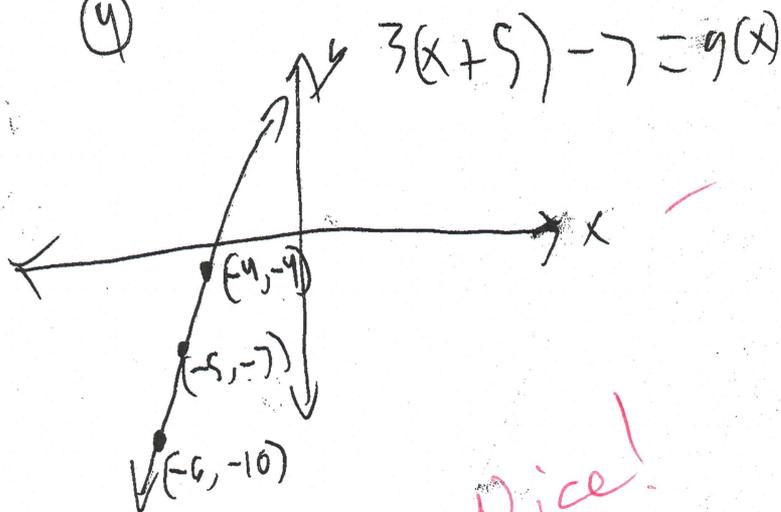
$g(x) = 3x$



③ $g(x) = 3(x+5)$

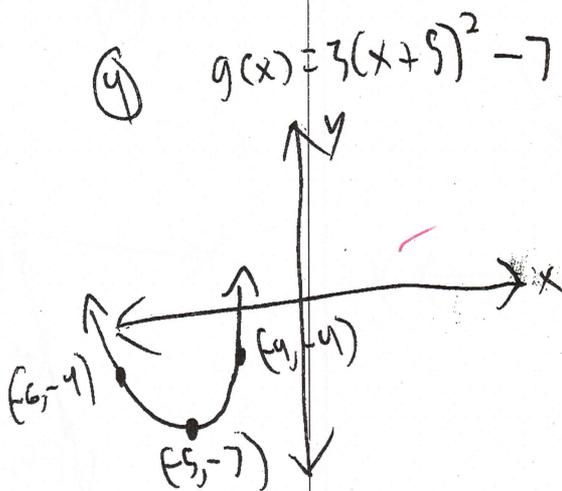
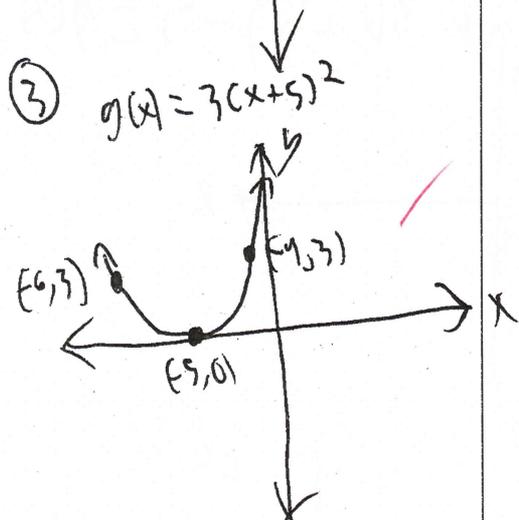
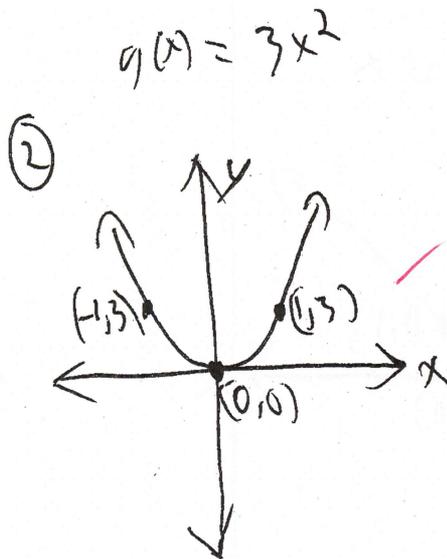
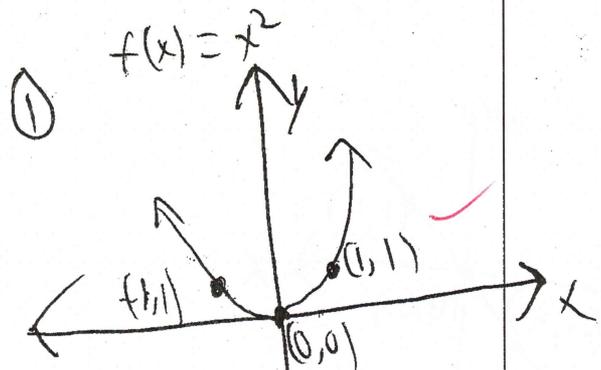


④



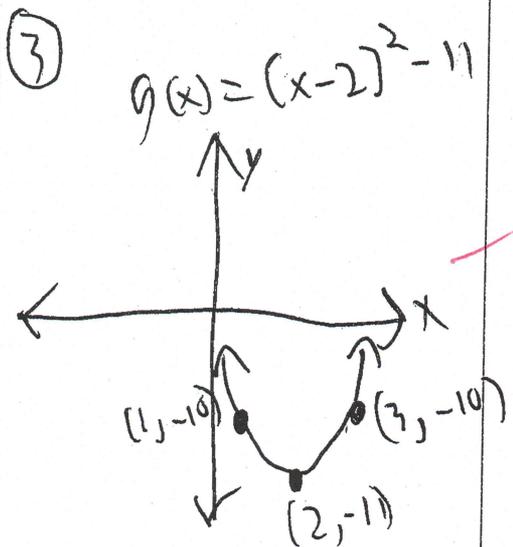
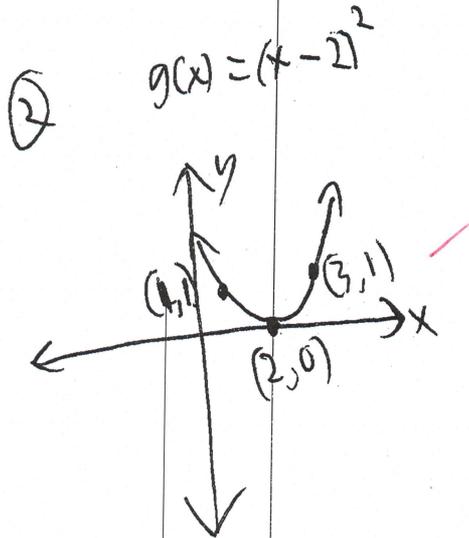
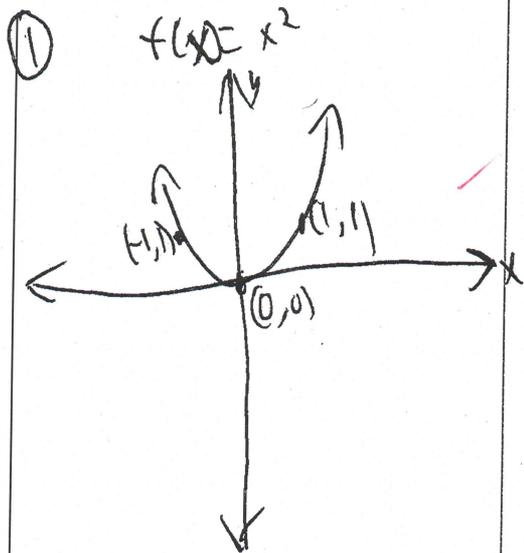
Nice!

⑧ $g(x) = 3(x+5)^2 - 7$



Nice!

① $g(x) = x^2 - 4x - 7 \rightarrow$ show how
 $= (x-2)^2 - 11 \leftarrow$ how



good!

⑩ $g(x) = 4x^2 + 5x + 17$

$= 4\left(x + \frac{5}{8}\right)^2 + 17\left(-\frac{5}{8}\right)^2$

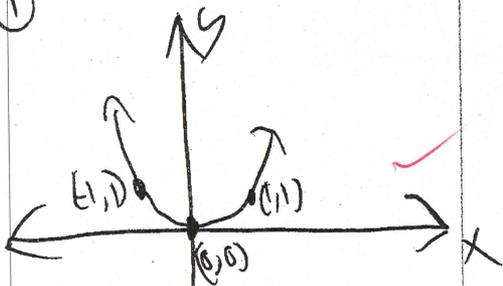
$= 4\left(x + \frac{5}{8}\right)^2 + \frac{247}{16}$

How?



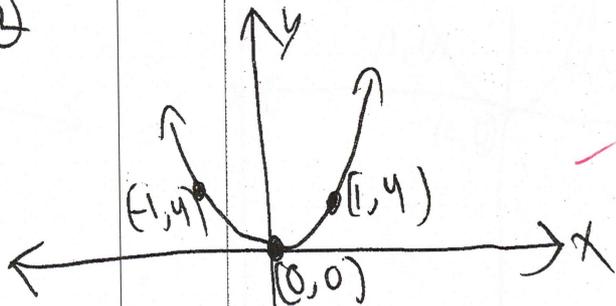
①

$f(x) = x^2$



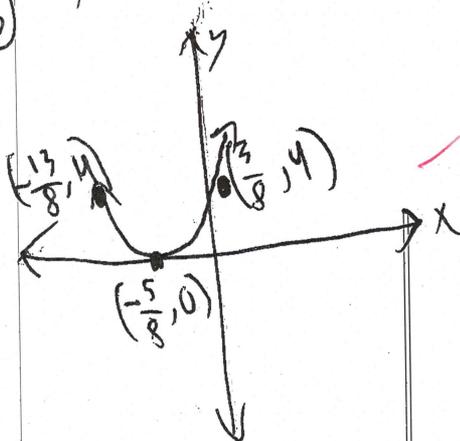
②

$g(x) = 4x^2$



③

$g(x) = 4\left(x + \frac{5}{8}\right)^2$



④

$g(x) = 4\left(x + \frac{5}{8}\right)^2 + \frac{247}{16}$

