p64 1-3, 11-13, 21, 22, 24-32, 35 Key

① D: {-2, 5, 6}
R: {-8, 1, 3}
Function

② D: {-2, 1, 4}
R: {-1, 2, 3, 5}
Not a function

③ D: {-2, 1, 4, 8}
R: {-4, -2, 6}
Function

⑪ D: {-.3, .4, 1.2}
R: {-6, -3, -1, 4}
Not a function

⑫ D: {-8, 2, 4}
R: {-6, -4, 12, 14}
Not a function

⑬ D: {-3, -1, 3, 5}
R: {-4, 0, 3}
Function

㉑ $f(-8) = 5(-8)^3 + 1$
$= 5(-512) + 1$
$= -2560 + 1$
$= \boxed{-2559}$

㉒ $f(2.5) = 16(2.5)^2$
$= 16(6.25)$
$= \boxed{100}$

㉔ $f(-5) = 3(-5) + 2$
$= -15 + 2$
$= \boxed{-13}$

㉕ $f(9) = 3(9) + 2$
$= 27 + 2$
$= \boxed{29}$

㉖ $g(-3) = -2(-3)^2$
$= -2(9)$
$= \boxed{-18}$

㉗ $g(-6) = -2(-6)^2$
$= -2(36)$
$= \boxed{-72}$

㉘ $h(3) = -4(3)^2 - 2(3) + 5$
$= -4(9) - 6 + 5$
$= -36 - 6 + 5$
$= \boxed{-37}$

㉙ $h(8) = -4(8)^2 - 2(8) + 5$
$= -4(64) - 16 + 5$
$= -256 - 16 + 5$
$= \boxed{-267}$

㉚ $f\left(\frac{2}{3}\right) = 3\left(\frac{2}{3}\right) + 2$
$= 2 + 2$
$= \boxed{4}$

㉛ $g\left(\frac{3}{2}\right) = -2\left(\frac{3}{2}\right)^2$
$= -2\left(\frac{9}{4}\right)$
$= \frac{-18}{4}$
$= \boxed{\frac{-9}{2}}$

㉜ $h\left(\frac{1}{5}\right) = -4\left(\frac{1}{5}\right)^2 - 2\left(\frac{1}{5}\right) + 5$
$= -4\left(\frac{1}{25}\right) - \frac{2}{5} + 5$
$= \frac{-4}{25} - \frac{2}{5} + 5$
$= \frac{-4}{25} - \frac{10}{25} + \frac{125}{25}$
$= \boxed{\frac{111}{25}}$

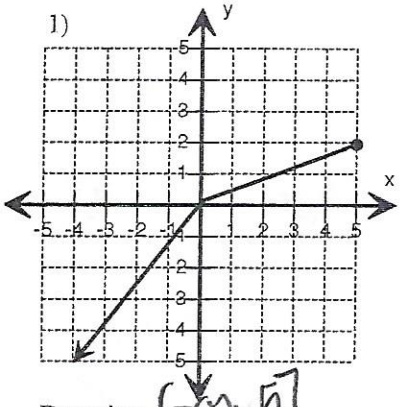
㉟ Omar. Madison didn't square 3 before multiplying.

Name: Key Score: _____

Domain and Range

Find the Domain and Range for each graph.

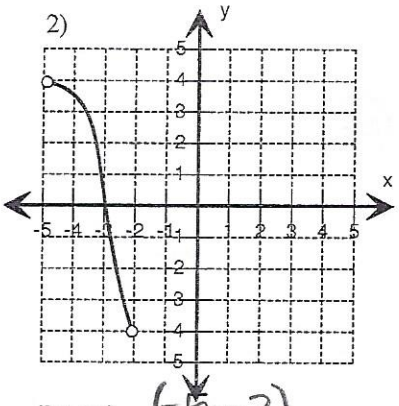
1)



Domain : $(-\infty, 5]$

Range : $(-\infty, 2]$

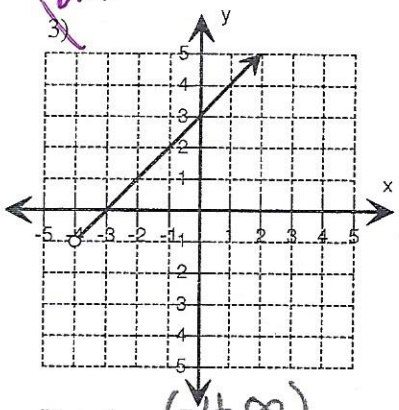
2)



Domain : $(-5, -2)$

Range : $(-4, 4)$

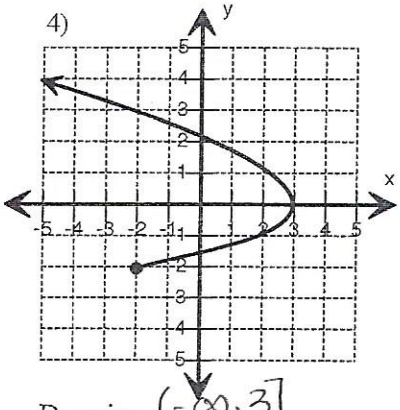
3) okay



Domain : $(-4, \infty)$

Range : $(-1, \infty)$

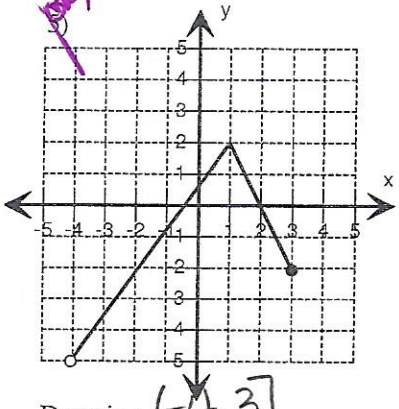
4)



Domain : $(-\infty, 3]$

Range : $[-2, \infty)$

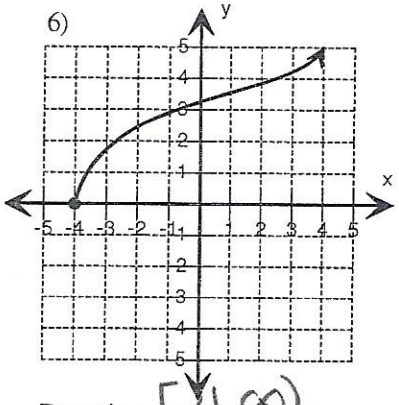
5) okay



Domain : $(-4, 3]$

Range : $(-5, 2]$

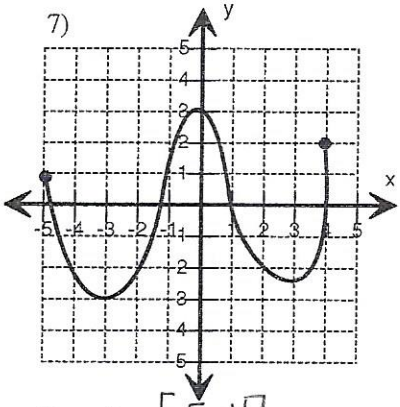
6)



Domain : $[-4, \infty)$

Range : $[0, \infty)$

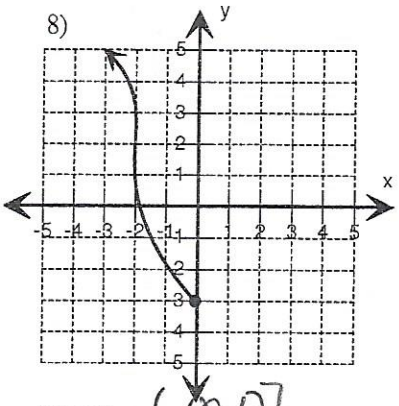
7)



Domain : $[-5, 4]$

Range : $[-3, 3]$

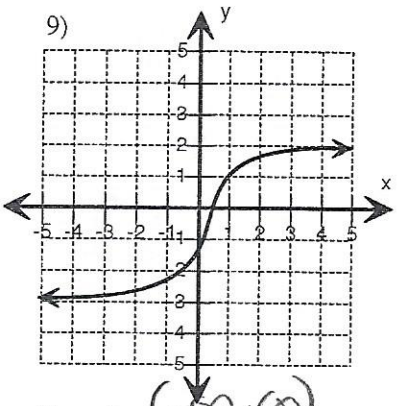
8)



Domain : $(-\infty, 0]$

Range : $[-3, \infty)$

9)



Domain : $(-\infty, \infty)$

Range : $(-\infty, \infty)$