Name _____   Period_____   Date _____

Ms. Schmidt   Pre-Calculus

Weekly Homework Quiz 3

This is a weekly homework quiz that will be given every week and is due back the following Monday.

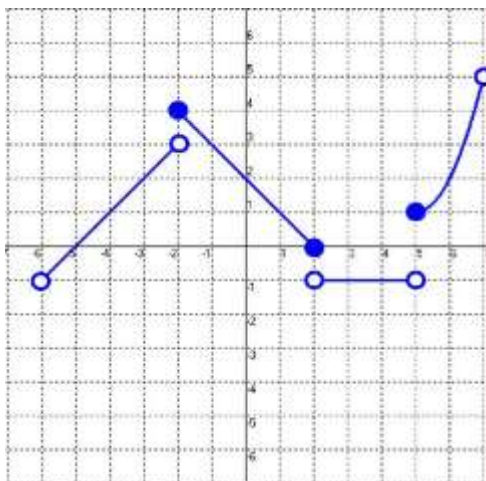This quiz is due back: **October 10th , 2017**

To receive full credit, all work must be shown. Any correct answer without work shown will receive only 1 point. Each question is worth 4 points.

1) When $f(t) = 5t = 1$ and $g(t) = 7t + 6$ find $\dfrac{f\left(\frac{n}{5}\right)}{g\left(\frac{n}{5}\right)}$ in simplest form.
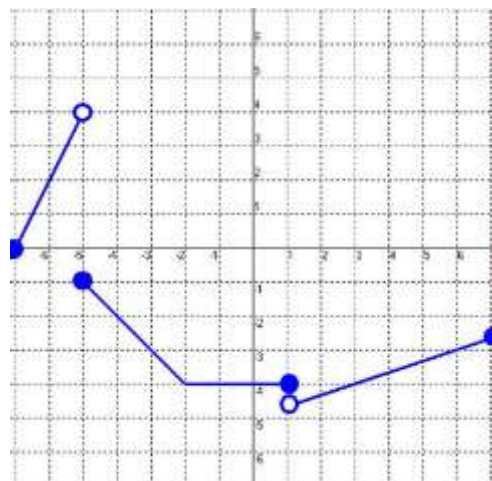
2) Expand completely $(2y - 1)^6$

3) Find the domain and range of each of the following [in interval notation]:

   a.   b.

4) Algebraically, find the inverse of $f(x) = -\frac{1}{3}x + \frac{5}{7}$ using function notation.

5) State if the given function and the inverse you solved for in #4 are inverses. Show ALL work!