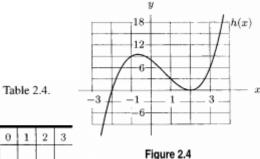
Lesson Plans for Amanda OMara for the week of 10/24/2016 (Page 1)

Mon 10/24	
Tue 10/25	
	Wed 10/26 PoTD: Andrew won a cash prize on a game show. Andrew paid taxes of 30% on the original cash prize and had \$28,000 remaining. How much was the original cash prize? Skills: a.) Use function notation to calculate output given input b.) Use function notation to calculate input given output c.) Complete an ordered pair given either an x or y value d.) Convert equation to table and table to graph e.) Determine if a coordinate pair is or is not a solution to an equation represented in function form, a table, or a graph Agenda: 1.) Warm Up/This Day in History/Debrief WU [15] 2.) Problem of the Day [10] 3.) Intro 4.) I do: The formula for the area of a circle of radius r is $A = q(r) = \pi r^2$. Use the formula to evaluate a.) $q(10)$ and $q(20)$. What do your results tell you about circles? (Discussion here about what the "10" and "20" mean, in function notation) Use the cricket function $T = \frac{1}{4}R + 40$. introduced on page 3, to find the rate, R , at which the snowy b.) tree cricket chirps, when the temperature. T , is 76° F. C.)(a) Using Table 2.2, evaluate $f(1)$, $f(-1)$, and $-f(1)$. (Write answer as ordered pair) Table 2.2
	Complete Table 2.6 using d.) $h(x)=x^5-5x^3+6x+1$ and $j(x)=2x+1$. (and graph) Table 2.6
Wed 10/26	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Let $h(x) = x^2 - 3x + 5$. Evaluate and simplify the following expressions. (a) $h(2)$ (b) $h(a-2)$ (c) $h(a) - 2$ (d) $h(a) - h(2)$
	b.) (rewrite with function from "a" in "I do":) Let $A = q(r)$ be the area of a circle of radius r , where r is in cm. What is the radius of a circle



Using Figure 2.4, fill in Table 2.4.

Table 2.4

x	-2	-1	0	1	2	3
h(x)						

c.) (and write answers as ordered pairs)

Table 2.5

Complete Table 2.5 using

x	-2	-1	0	1	2
f(x)					
g(x)					

d.) (and graph) f(x) = 2x(x-3) - x(x-5) and $g(x) = x^2 - x$.

e.) Ask questions about ordered pairs in "d"

6.) You do: "Evaluating Functions" Classwork/Homework

7.) Exit Ticket: $f(x) = x^{2} + 2x + 1$. Complete table for given x values, write solutions as ordered pairs, and graph. Is

(1, 7) a solution to the function?

Thurs 10/27

PoTD: A proofreader can read 40 pages in one hour. How many pages can this proofreader read in 90 minutes? Skills:

Use function notation to solve real world problems involving evaluating expressions and functions *Agenda*:

1.) Warm Up/This Day in History/Debrief WU [15]

2.) Problem of the Day [10]

3.) Debrief HW [10]

4.) Intro discourse (springboard from HW): Talk about problem #33. What did you notice/what did you wonder? What did you discover? What lingering questions do you have? [10]

5.) I do/We do [30]: Discovery/discourse lesson with whiteboards and Desmos on this task:

https://www.illustrativemathematics.org/content-standards/HSF/IF/B/4/tasks/386

7.) You do: Collaborative work with this task: [10]

https://www.illustrativemathematics.org/content-standards/HSF/IF/B/4/tasks/387

8.) Exit Ticket: 3-2-1 Exit Ticket [5]

Fri 10/28

PoTD: There are 16 ounces in one pound. If 3.4 pounds of beef cost \$4.95, what is the cost per ounce, to the nearest cent?

Skills:

Use function notation to solve real world problems involving evaluating expressions and functions Agenda:

1.) Warm Up/This Day in History/Debrief WU [15]

2.) Problem of the Day [10]

3.) Weekly Quiz (Combo from last week and this week) [20]

4.) Intro discourse: SUHUPU How far did your group get on the task yesterday? [5]

(Task: https://www.illustrativemathematics.org/content-standards/HSF/IF/B/4/tasks/387)

5.) Yesterday's task gallery walk [5]

6.) Productive struggle as a group [10]

7.) Final share out/teacher clean up [10-20 depending]

8.) Exit Ticket: Weekly Reflection