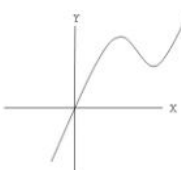Make sure to show all work on a separate sheet of paper. Full credit will only be given if work is turned in with all answers. Do not use a calculator.

Monday	Tuesday	Wednesday	Thursday
1. The $\sqrt{86}$ is between what two consecutive integers	1. A relation is defined by the ordered pairs $\{(1,4)(3,6)(3,8)(9,-1)\}$ In order to be considered a function, which order pair or pairs should be removed from the relation and why?	1. Write and solve an equation for the scenario. A scuba diver is retrieving an article from the 270 feet below sea level. She can dive at a rate of 45 feet per 10 min. How many minutes will it take her to retrieve the article?	1. Martha bakes cookies at a rate of 12 cookies per 10 minutes. Sally bakes 8 cookies every 6 min. Which woman bakes at a faster rate? How much faster?
2. A square has an area of 81 in^2 and a cube has a volume of 125 in^3, what is the difference between the two side lengths?	2. Identify whether each equation represents a linear or non-linear function. (a) $Y = -x$ (b) $Y = 2x + 6$ (c) $Y = x^2$ (d) $Y = \frac{3x + 6}{2}$ (e) $Y = x(x+3)$	2. Solve $X^3 + 26 = 242$	2. A line passes through the points (5,3) and (6,8) What is the slope of the line?
  3. Is the given graph a function? Explain why or why not?	3. Given the function. Identify the domain values. 	x	y
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0	2
4	6
9	11		3. Solve $\frac{x}{6} + 5 = 13$	3. Jamal swims 16 laps in 20 minutes Marie swims 20 laps in 24 minutes. If both swimmers swim for 60 minutes, who will swim more laps and how many more?
4. Identify all real number categories for $-\frac{2}{5}$	4. Solve the equation $8(a+2) = 5a + 16 +3a$	4. The sum of two consecutive integers is 95. What are the two integers?	4. A line passes through the points (-9,5) and (-9,7). What is the slope of the line?