Lessons 2.1 Worksheet

Name:

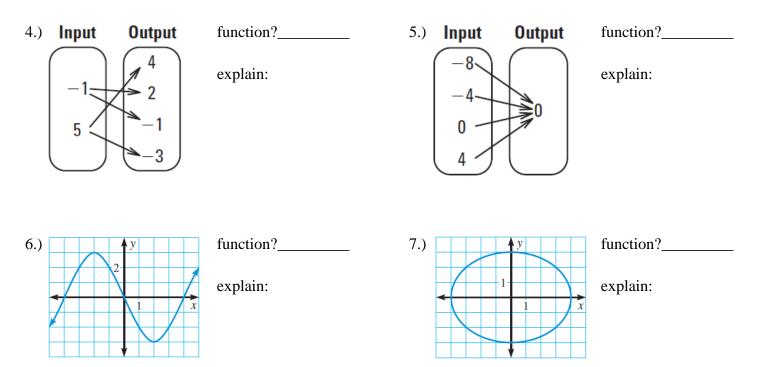
1.) In the equation $y = x + 5$, x is the	variable and y is the	variable.
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Identify the domain and range of the given relation. Then tell whether the relation is a function.

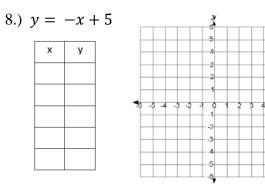


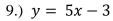
3.) (4, -2), (4, 2), (16, -4), (16, 4) domain_____ range_____ function? _____

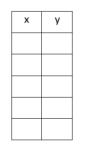
Tell whether the relation is a function. *Explain* how you know.

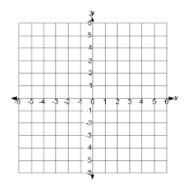


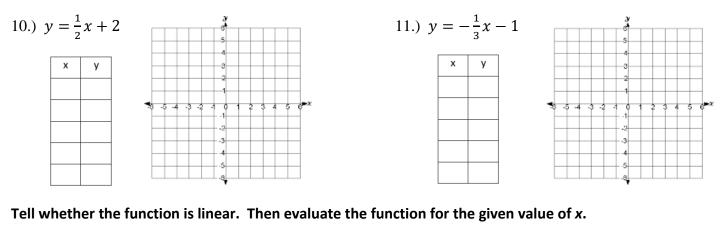
Graph each function by creating a table of values.





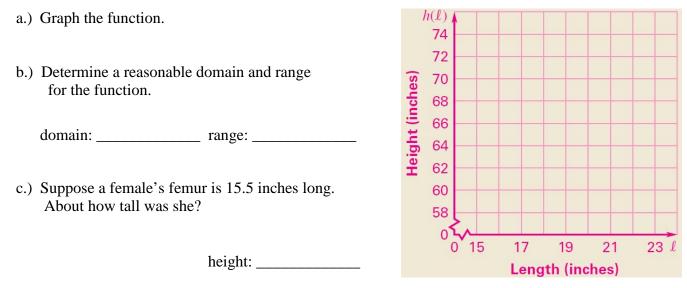






12.) $f(x) = x + 15; f(8)$	linear?	<i>f</i> (8) =
13.) $f(x) = x + 10; f(-4)$	linear?	<i>f</i> (-4) =
14.) $g(x) = x^3 - 2x^2 + 5x - 8; g(-5)$	linear?	<i>g</i> (-5) =
15.) $h(x) = 7 - \frac{2}{3}x; h(15)$	linear?	<i>h</i> (15) =

16.) Anthropologists can estimate a person's height from the length of certain bones. The height *h* (in inches) of an adult human female can be modeled by the function h(l) = 1.95l + 28.7 where *l* is the length (in inches) of the femur, or thigh bone. The function is valid for femur lengths between 15 inches and 24 inches, inclusive.



d.) If an anthropologist estimates a female's height as 5 feet 11 inches, about how long is her femur?