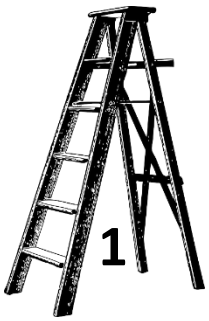
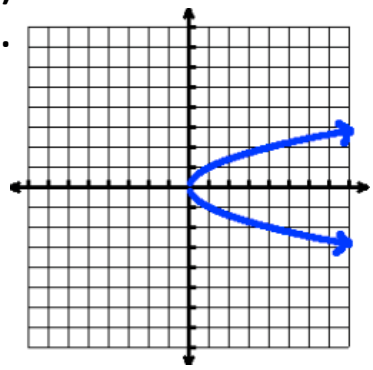
Climb the Ladder – Topic 3

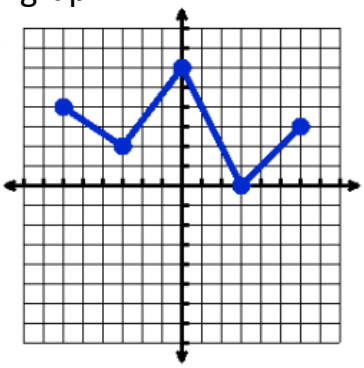


1) Determine the domain and range for each graph.

a.



b.



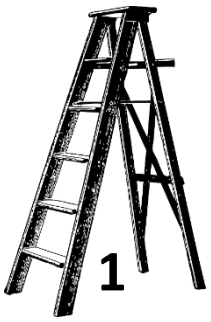
2) Determine if each relation is a function and state how you know.

a. $(2,4),(5,4),(6,3),(4,4)$

b.

x	y
2	3
4	2
7	3
4	1

Climb the Ladder



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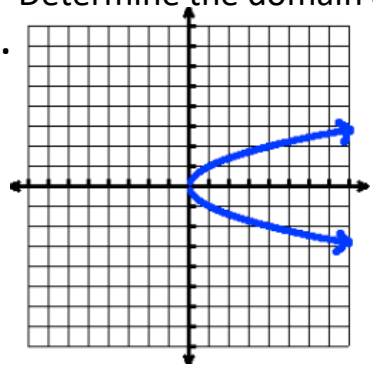
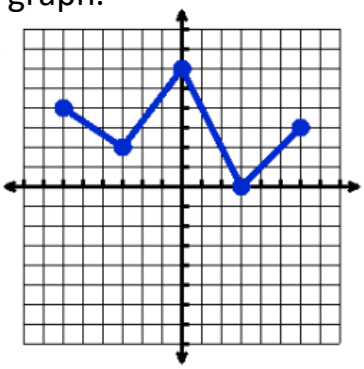


b.



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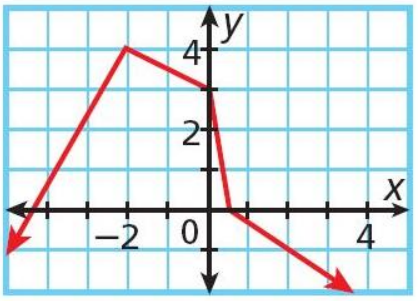
Climb the Ladder

1) Given $f(x)=3x-1$, $g(x)=x^2$, and $h(x)=\frac{x}{2}$, evaluate each of the following

a. $f(2)$ **b.** $h(4)+g(5)$ **c.** x, when $f(x)=8$

2) Given the graph of $h(x)$, evaluate each of the following

a. $h(2)$ **b.** $h(0)$ **c.** x, when $h(x)=4$



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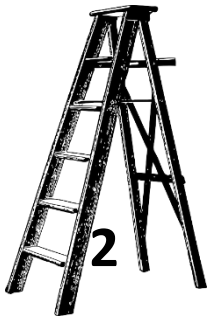

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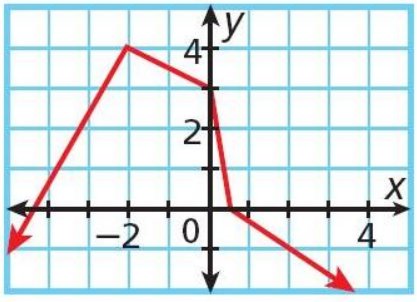
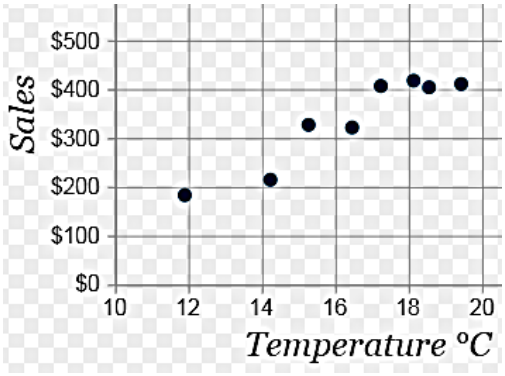
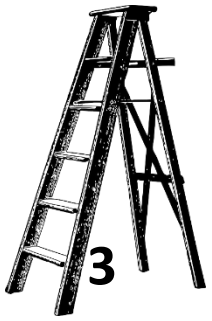


Climb the Ladder – Topic 3

1) **a.** Draw in the line of best fit

b. Write the equation for the line of best fit.



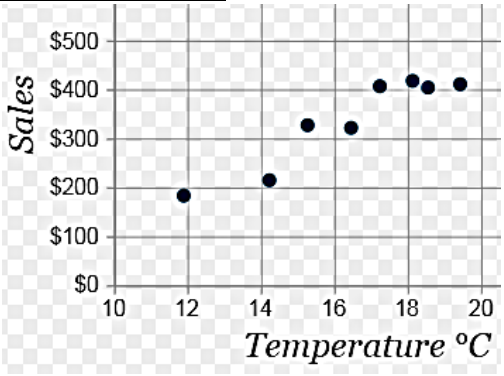


c. What type of correlation does the graph have?

d. Using your line of fit what will total sales be if it is 30 degrees outside?

Climb the Ladder

1)



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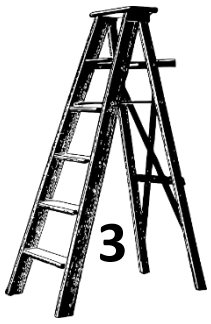

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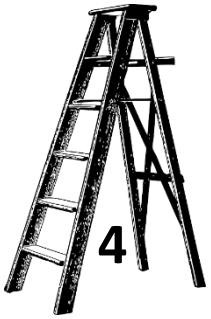
Climb the Ladder –



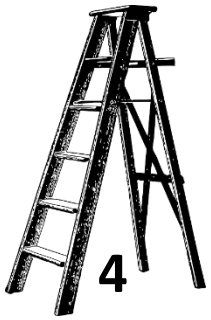
1) Write the recursive and explicit formula for the sequence: 1,7,13,19…

2) Lee earned $240 dollars during the first week at work, $350 in the second week, and $460 in the third week. Assume the pattern continues.

a. Write the explicit formula modeling this scenario

b. How much money will Lee make in 6 weeks?

Climb the Ladder



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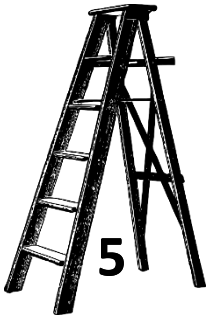
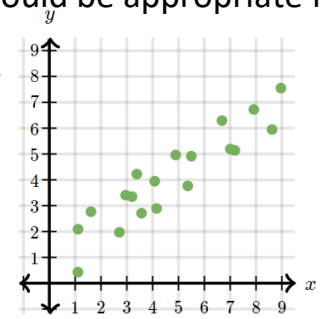


1) Describe what type of correlation each graph has, then state an r-value that would be appropriate for the graph.

a.



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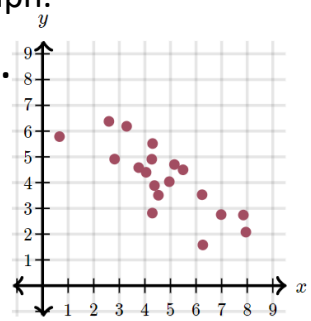
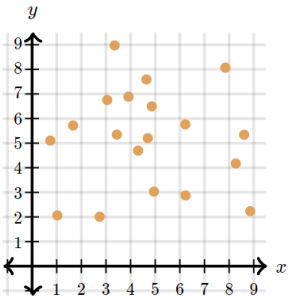
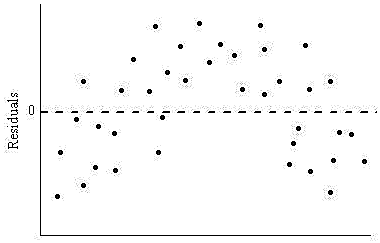
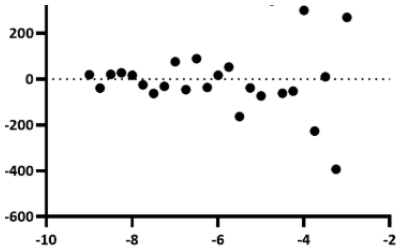


c.



2) Select the residual plot that shows a linear model is a good fit for the data?





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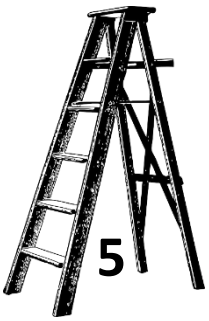

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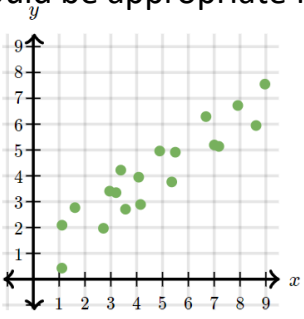

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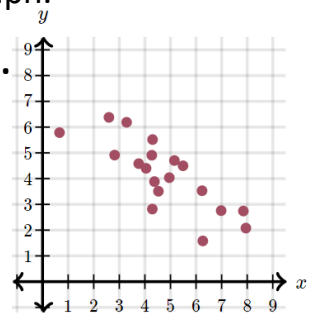

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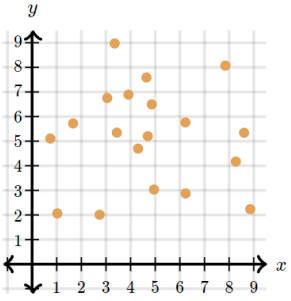

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