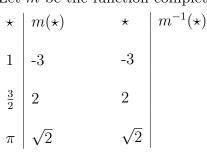
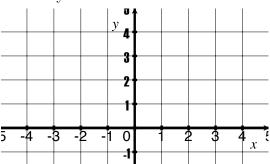
Inverses

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.
- 1. Given a tube partway filled with liquid will have a height dependent on the temperature. That is, we have height, h, as a function of Temperature, T.
 - (a) What does h(32) = 1 mean in physical terms?
 - (b) Describe the inverse function h^{-1} by identifying the inputs, outputs, and what it measures.
- 2. Let m be the function completely defined by the table:





- (a) Complete the table above to define m^{-1} .
- (b) Plot the graph of m on the set of axes provided.
- (c) Use a different mark (or color) to graph m^{-1} on the same set of axes.
- (d) Find the domain of m and range of m^{-1} . Are there any similarities?

The observations you made in (e) is true in general, and more:

if f is the inverse of g then:

Domain of f=Range of g

Range of f=Domain of g

- 3. Let n be the function defined by the following graph:
 - (a) Will n have an inverse? Why?

