## TMath 171

As a reminder, you are welcome to use a non-internet accessing calculator (which includes Desmos Test Mode) and one 2-sided 8.5 in by 11 in sheet of notes. Show your work for the following problems. The correct answer with no supporting work will receive NO credit.

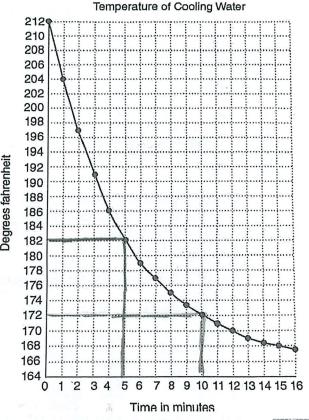
- 1. Fourth graders conducted an experiment to observe the rate at which water cools. They placed a thermometer in a beaker of water and heated the water to boiling. They recorded the water temperature every minute until the temperature dropped to just below 168° F. Then they plotted the results on the grid like the one below.
  - (a) [2] (Suggested §9.3 #5) Does the rule described above and graphed to the right determine a function or not? Briefly justify your answer.

Ties. Each mink provides at most one temperate at pl or Vehical live test

(b) [2] (Function2Activity #2) What is the temperature of the water, 10 minutes after boiling?

gryphicedry (1) (c) [2] (Function2Activity #2) Approximately how many minutes does it take for water to cool from 212° F to 182° F? about 5 min (1)

graph reading (1)

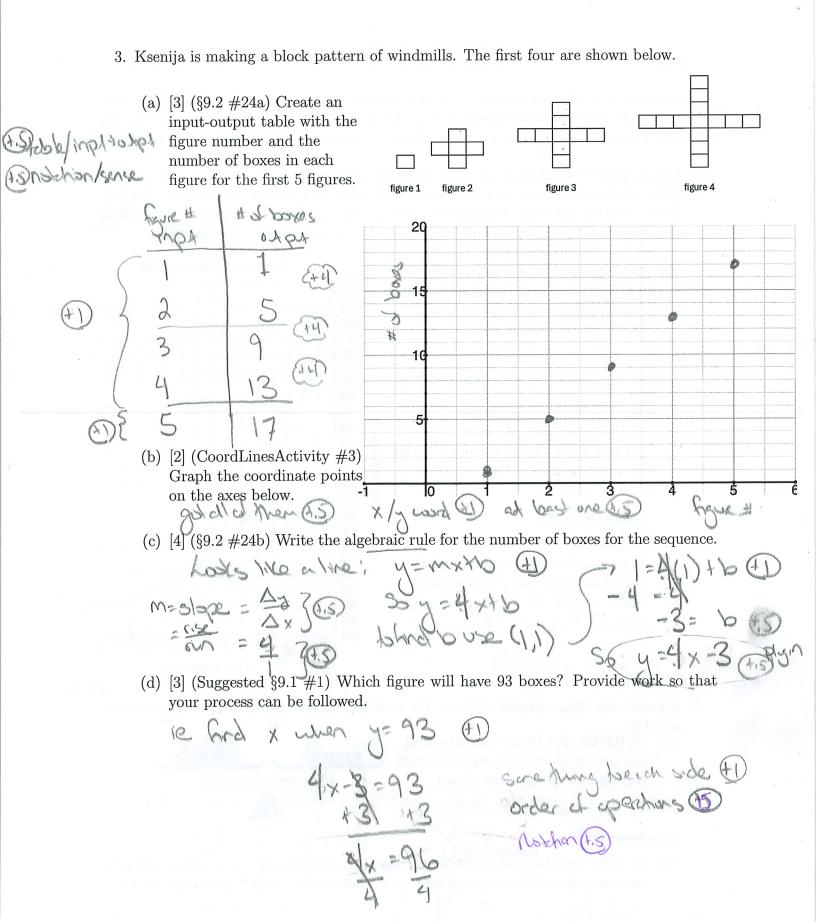


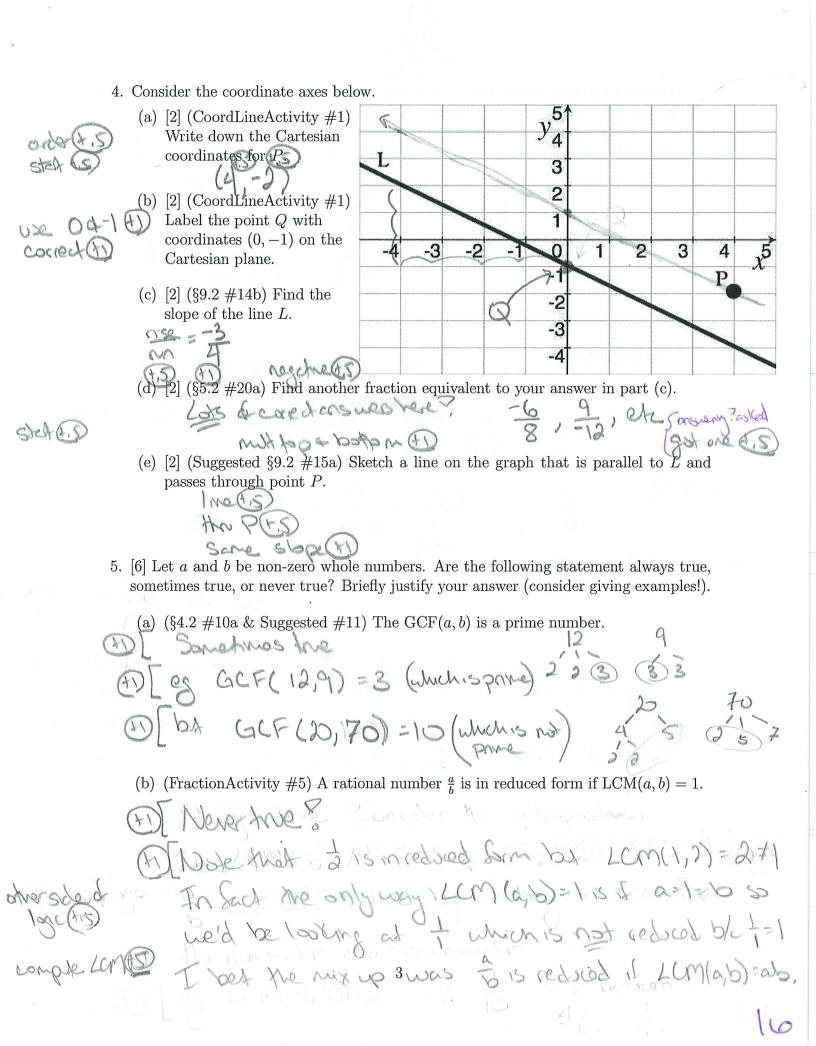
2. Consider the balanced scales below. We want to find how many chips weigh the same as a box.

(a) [3] (Quiz8 #3) Define variables and use the variables in an equation that corresponds to the scale shown.

(+1) let x = 4 d chips that weigh serveces box

(b) [3] (§9.1 #6) Use the scales or the equation to find how many chips weigh the same as a box. Write enough that your work can be easily followed by a peer





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6. The work for the problems below are wrong. Find the error(s), try to detect the reason for the error, and provide the correct work. Let a be a non-zero whole number.

(a) [3] (Quiz7#1)

(D) [Error: reed to Sector 3 at at entire denomination of the control of the

(c) [3] (FracAddMultActivity #3)

Correct Work:

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Correct Work:

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7. [1] What topic or concept did you study and prepare for, but not see on the exam?