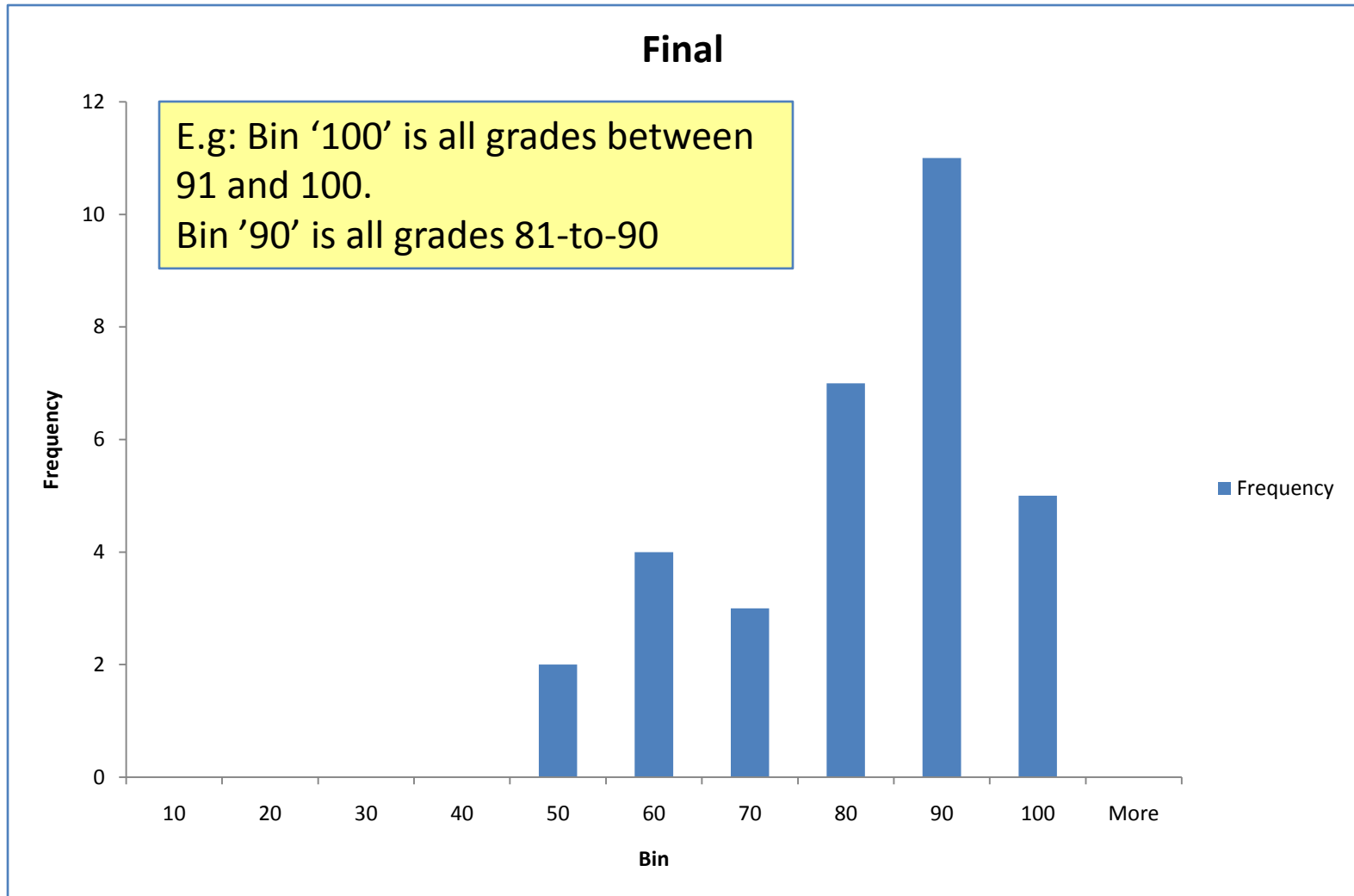


Differential Equation test:  
Results analysis (Period 1)  
+  
'How to study'

Mar-13-2009

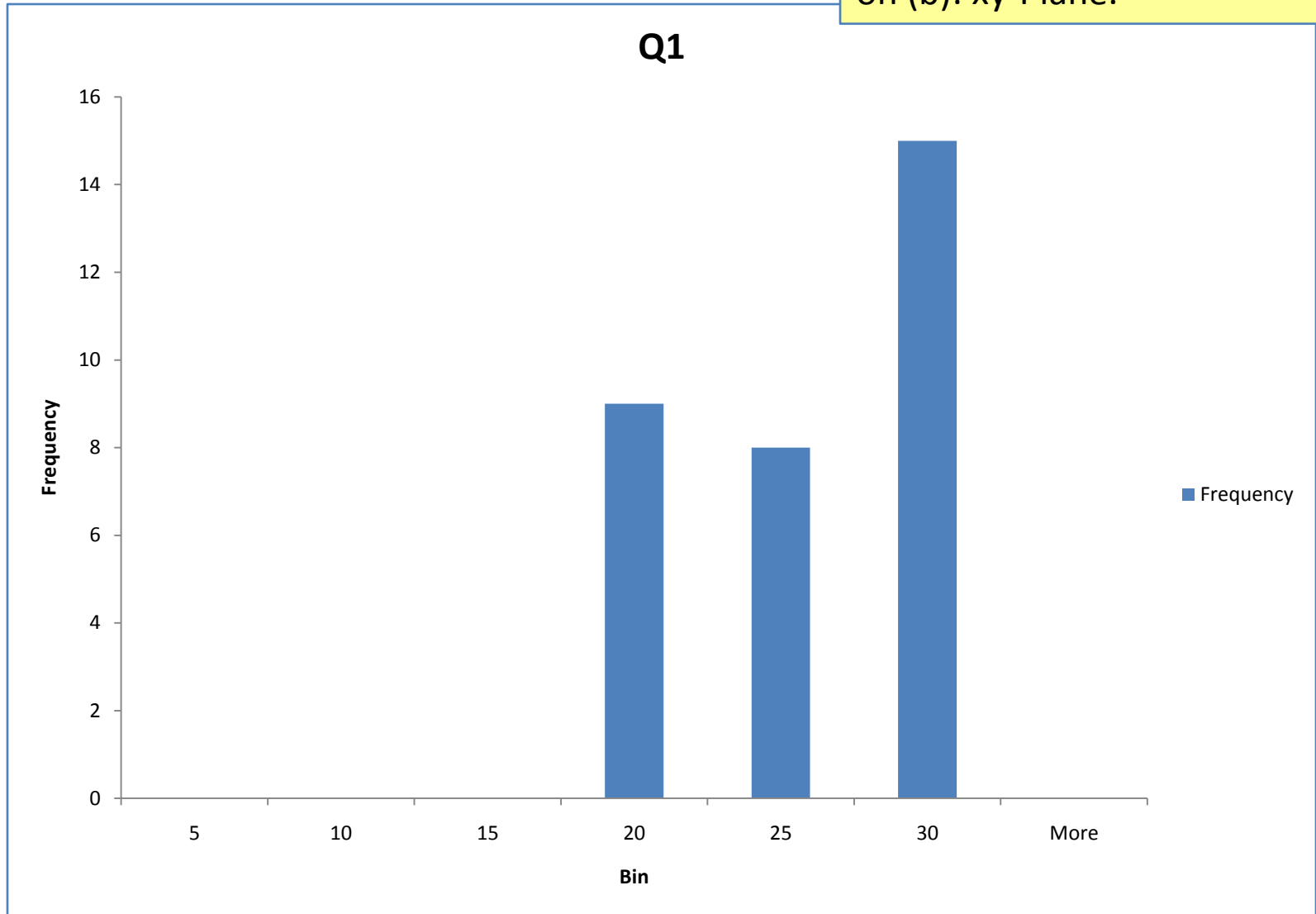
Zachi Baharav

# Final grade (with '+16' factor)



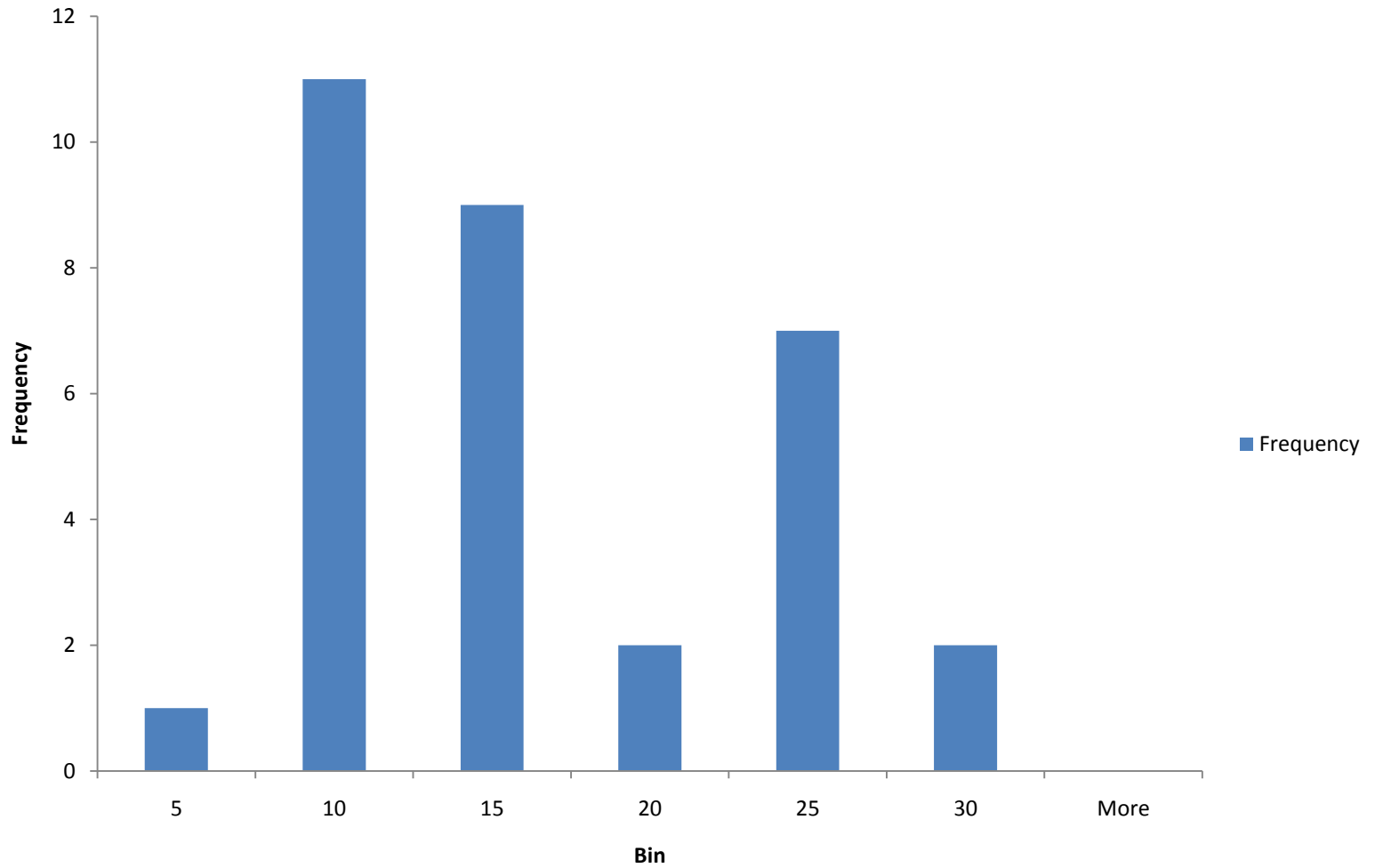
# Individual questions

People did very well, other than on (b): xy-Plane.



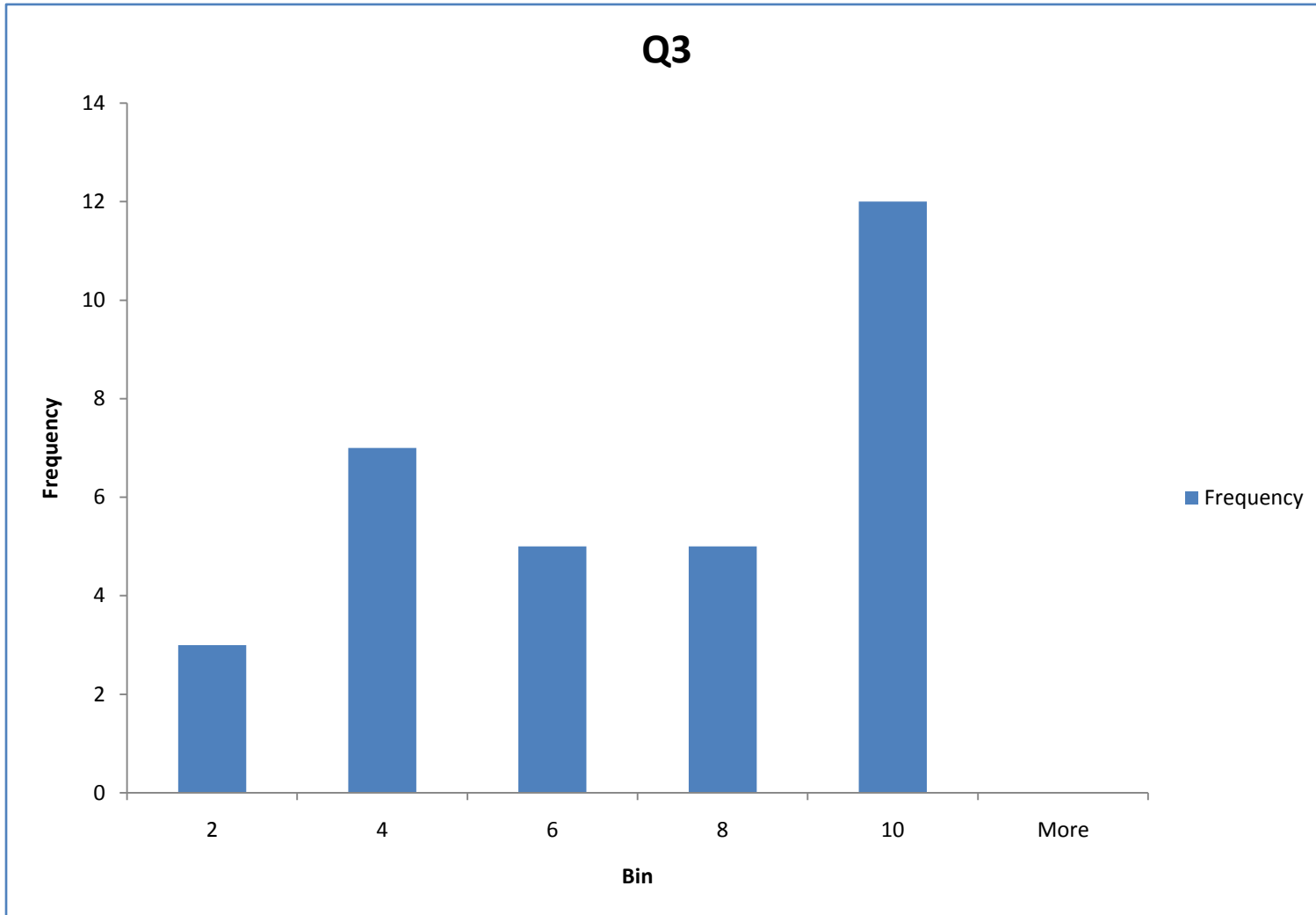
Most points (6) on drawing, and bits and pieces...

### Q2



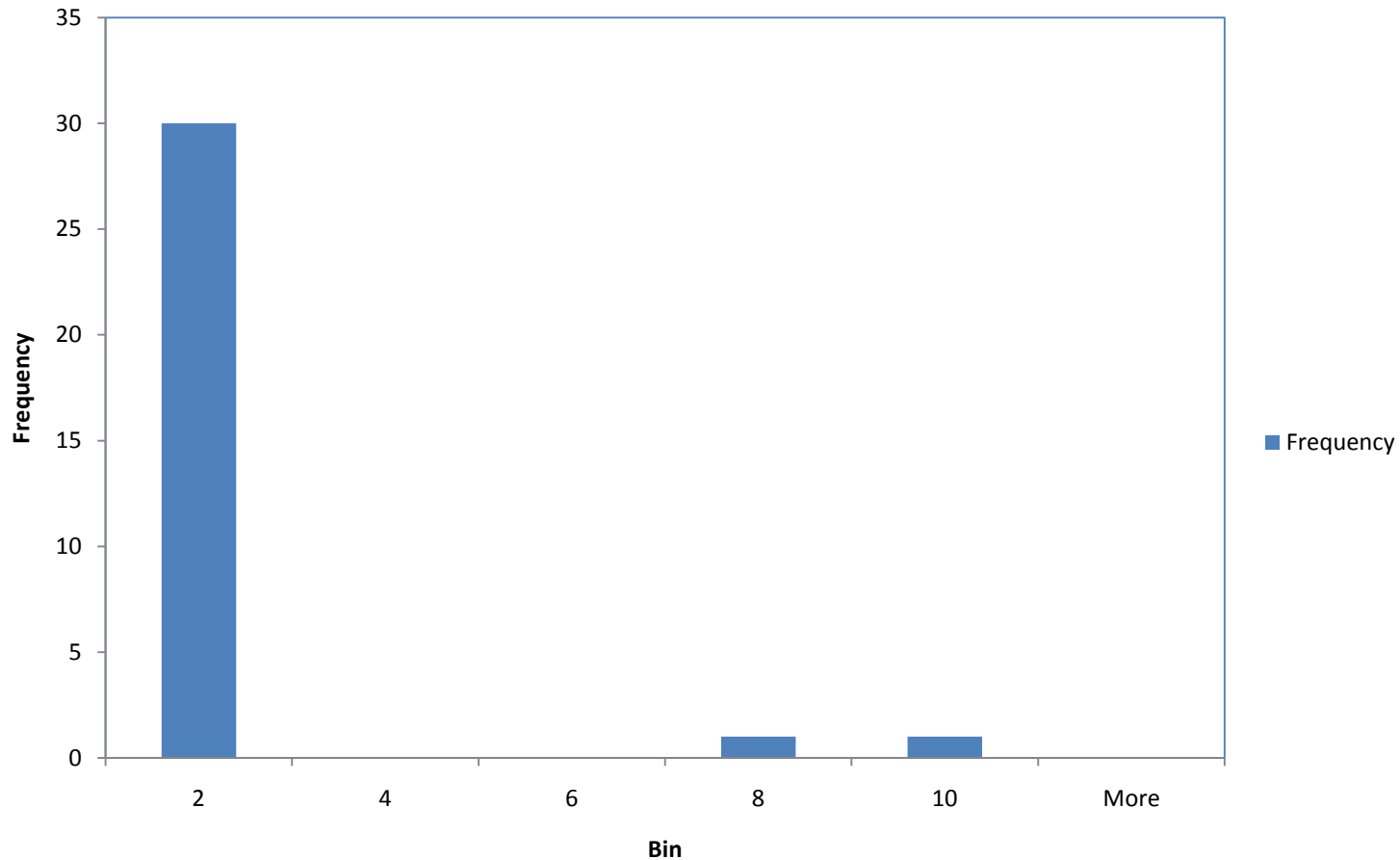
Simple terms:

Most people erred on 'linear', but I gave 2 (out of 3) for relevant argument.



The most telling question!!

Q4



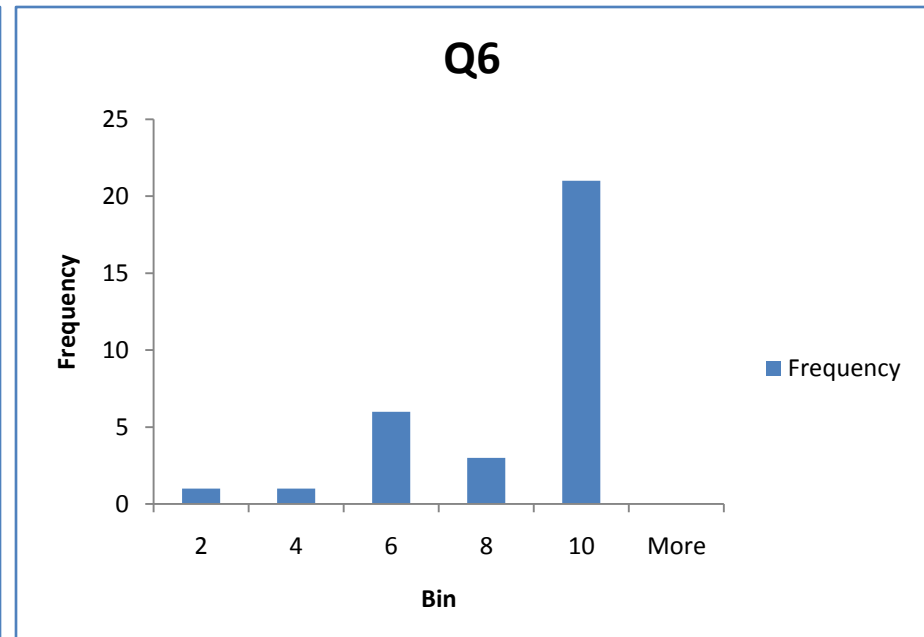
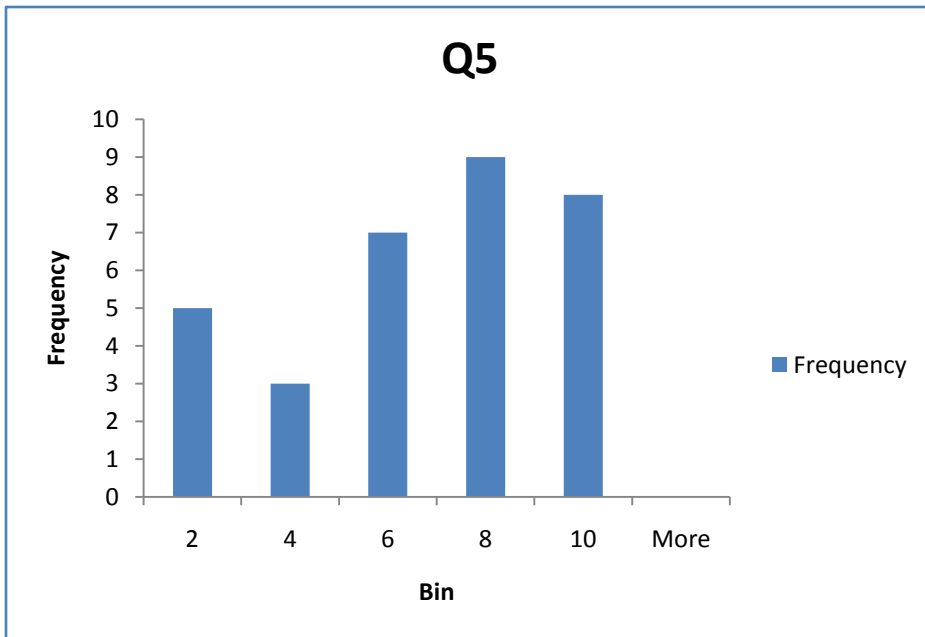
Given the equation :

$$y' = 2^2 + y^2$$

, the general solution is **(Show your work!)**:

Q5: Second half needed more analysis...

Q6: Simple integration, people did amazingly well!!



# Reflections

- How would you study differently?
- Many comments: Study harder! Study more!
- The real answer: Study less, but SMARTER!!



# What do you want to achieve?

- Understand what was taught:
  - Read the notes.
    - Highlight ; Copy to clean.
    - Summarize.
    - Multiple time reading?!?
- Know to apply to problems:
  - Homework, in class.
  - New problems from the book.
- Organize:
  - Identify the key points !!!
- Extend to the next level:
  - Challenge problems
    - Look at AP tests from previous years.

Compare with peers !

Ask teacher if it is too confusing!!

The important thing:  
Stop to reflect on what you did, and  
how you did!!

- Evaluation:
  - If you are weak on previous items, go and complete those.
  - For example: **Did you go to look at the integration chapter?!?**

# Compare reflections:

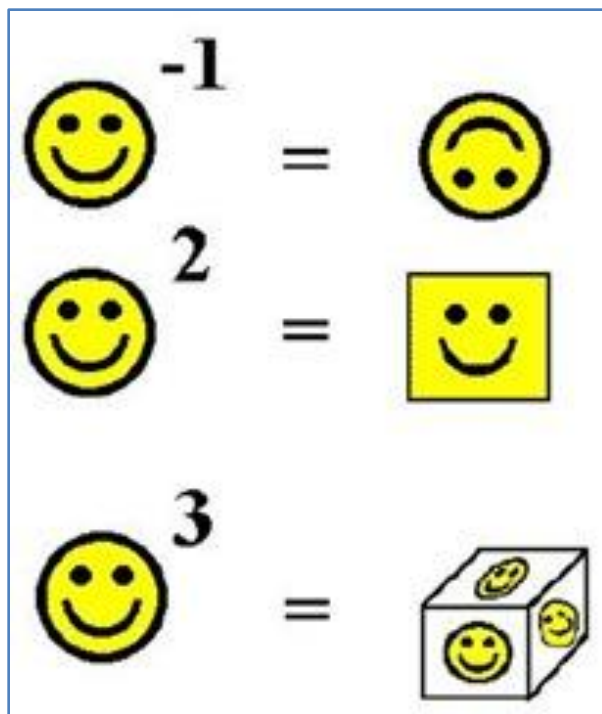
“Study more”, “Study harder” comments.

Vs.

- “Go over more types of integration”
- “Study more on word-problems”
- “Learn the terms”
- “Study more since I was very confused”
- “Study more trig functions”

# Be happy !

## Take time to reflect.



# Evaluating

<b>Slope field</b>	Can draw straight lines with specified slope.	Can compute numerically, and graph most points.	Can graph correctly, and identify relation to solution curves.	Can use the relation to solution curve to solve advanced problems.
<b>Solution: General and particular</b>	Knows basic integration and algebraic manipulation.	Can perform the first two steps of separation of variables: Separate $x$ and $y$ , and integrate. Can identify the constant.	Can isolate and express $y$ . Can substitute initial condition.	Verifies solution. Can substitute initial condition at the appropriate time. Interpretation of solution and final behavior.
<b>Word problems</b>	Understands the words (literal), identify some terms.	Can rephrase the problem in own words. Identifies items and relations between.  Can guess a solution.	Able to write the correct equation.	Solve correctly, and can make a sanity-check of the solution.

Revised Bloom's  
Taxonomy for 21<sup>st</sup>  
century

Create

Evaluate

Analyze

Apply

Understand

Remember

