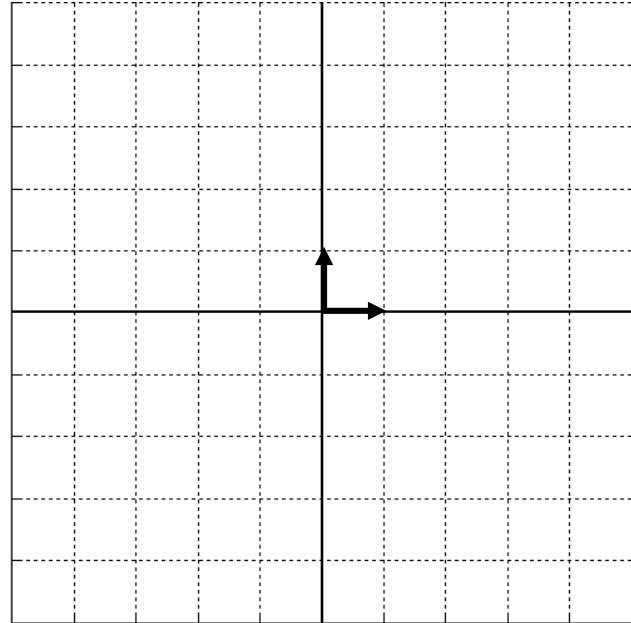


Name _____

Please show your work or describe your reasoning. Do not simply mark an answer without context.

Problem 1:

Draw the following vectors, with the tail at the origin (0,0). Assume a basis with two vectors: \hat{x} points to the right and \hat{y} points upwards. You may use either the geometric or algebraic method, but make sure your final answers are clearly drawn and labeled in the figure.



- a) $\vec{a} = [2, -3]$
- b) $\vec{b} = [1, 2]$
- c) $\vec{c} = \vec{a} - \vec{b}$
- d) $\vec{d} = \vec{c} + 2\vec{b}$
- e) $\vec{e} = -\vec{b}$

Problem 2: MATLAB

Assume that the workspace and command window have been cleared. What is the output from the following scripts? If an error would result, *briefly* explain why.

```
a = 4;  
b = 2;  
  
2*c = (b+3) / a*b
```

```
a = 2;  
b = 3;  
  
c = (a + b + c)
```

```
a = 1-3 * 4;  
b = 4;  
a = a + b;  
  
c = a * b
```

Error

Error

Error

List one concept that confuses you, or one question you would like me to answer