1. Convert #D8E7AF to integer RGB values and real RGB values. Round RGB values to three decimal places.

2. Convert (200, 93, 249) to hexadecimal and real RGB values. Round as before.

+6 Hexadecimal:
$$\# C85DF9$$
 Real: $(0.784, 0.365, 0.976) + 3$

3. You have a color represented by $(0.6 \times \text{random}(), \text{ random}(), 1)$. Circle all colors which are possible. (Assume that random() can return both 0 and 1.)

R G B C M Y K W

- 4. You have a color represented by $(1, 0.5 \times \text{random}(), b \times \text{random}())$, and $0 \le b \le 1$. The only information you know is that you **cannot** make magenta with this formula. Circle all statements which *must* be true. There may be more than one!
 - (a) b cannot be 0.
 - (b) b cannot be 1.

(c) You cannot make black.

((d)) You cannot make white.

5. You are coloring the line segment from (0,0) to (1,0) so that the point (x,0) is assigned the color (0,x,1). Describe in a sentence or two how this line segment is colored.

6. You have a color represented by $(a, 1-b \times \text{random}(), c \times \text{random}())$. Give values for a, b, and c so that you can make yellow, but you cannot make cyan. You only need to give one set of values (a, b, c). Make sure $0 \le a, b, c \le 1$.

$$a = 1$$

7. Each of the figures below is drawn inside a unit square with vertices (0,0), (0,1), (1,1), and (1,0). Label the vertices of the figures on the graphs.





