

1.)

a.)  $D_0, D_1, D_4, D_7$  are set high  
 $D_2, D_3, D_5, D_6$  are set low.

ABC reads 101 which means  $D_4$  is connected currently.

b.) Since  $D_4$  is selected and is high we check  $D_7$  which is also high.  
This means output  $Y$  is set high.

2.) Needs to be 4, so  $S_2, S_1, S_0$   
Should be 100