Which statement is correct?

A. Plot a is for a 2s orbital
B. Plot b is for a 2s orbital
C. Plots c-d are for the 3px, 3py and 3pz
D. The type of nodes shown with the blue arrows are angular nodes.
E. Not enough information is given to answer this question.
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Which value(s) below is a possible $Z_{\text{eff}}$ for the 2s electron in a Li (Z=3) atom?

1. $Z_{\text{eff}} = 0.39$
2. $Z_{\text{eff}} = 0.87$
3. $Z_{\text{eff}} = 1.42$
4. $Z_{\text{eff}} = 3.19$
5. Option 1 and 2
6. Option 1, 2, and 3
7. Option 2 and 4
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Identify the correct electron configuration for the carbon (Z = 6) atom.

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2. $1s^22s^22p_x^2$
3. $1s^22s^22p_y^2$
4. $1s^22s^22p_z^2$
5. $1s^22s^22p_x^12p_z^1$
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Which element has the following electron configuration: [Ar]4s\(^1\)3d\(^{10}\)

1. Cu
2. Zn
3. Ga
4. Ag
5. Cd
6. In
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