## **Isotopes CHEMISTRY 110**

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1. Fill in the blanks with the correct answers for the following:

Symi	bol :	# of Protons	# of Electrons	# of Neutrons	Net Charge
106 46	'd _				
Сорр	er-64				
88 38	Sr <sup>2+</sup>				
31 15 <sup>P3</sup>	3-				
			28	33	3+
			18	19	2-

2. Write complete symbols  $\binom{A}{Symbol}$  for the following:

- a. An isotope of Chromium that has 3 more neutrons than  $^{54}$   $_{Cr}$ .
- b. An atom of O that has 4 more subatomic particles than <sup>13</sup>C
- c. An atom of Silver which has the same number of electrons, protons, and neutrons
- d. An atom with 6 more neutrons and 3 more protons than <sup>37</sup>Cl
- e. An isotope of Bromine that contains the same number of neutrons as Arsenic-74
- f. An isotope of Manganese that contains the same number of subatomic particles as Cobalt-60

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