**Skill 20.01 Problem 1**

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| Draw Lewis structures for the following molecules: |
| (a) O3 |
| (b) SO2 |
| (c) CO32- |
| (d) ClO4- |
| (e) Which of the above molecules undergo “resonance”? How do you know? |

**Skill 20.02 Problem 1**

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| Beryllium can only form two bonds. Explain why using principles of electron structure. |
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| Draw the Lewis structure for BeF2. |
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**Skill 20.02 Problem 2**

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| Sulfur can form up to 6 bonds. Explain why using principles of electron structure. |
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| Draw the Lewis structure for SF6. |
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**Skill 20.02 Problem 3**

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| Draw the following Lewis structures: | |
| PCl5 | XeF4 |
| ICl4- | I3- |