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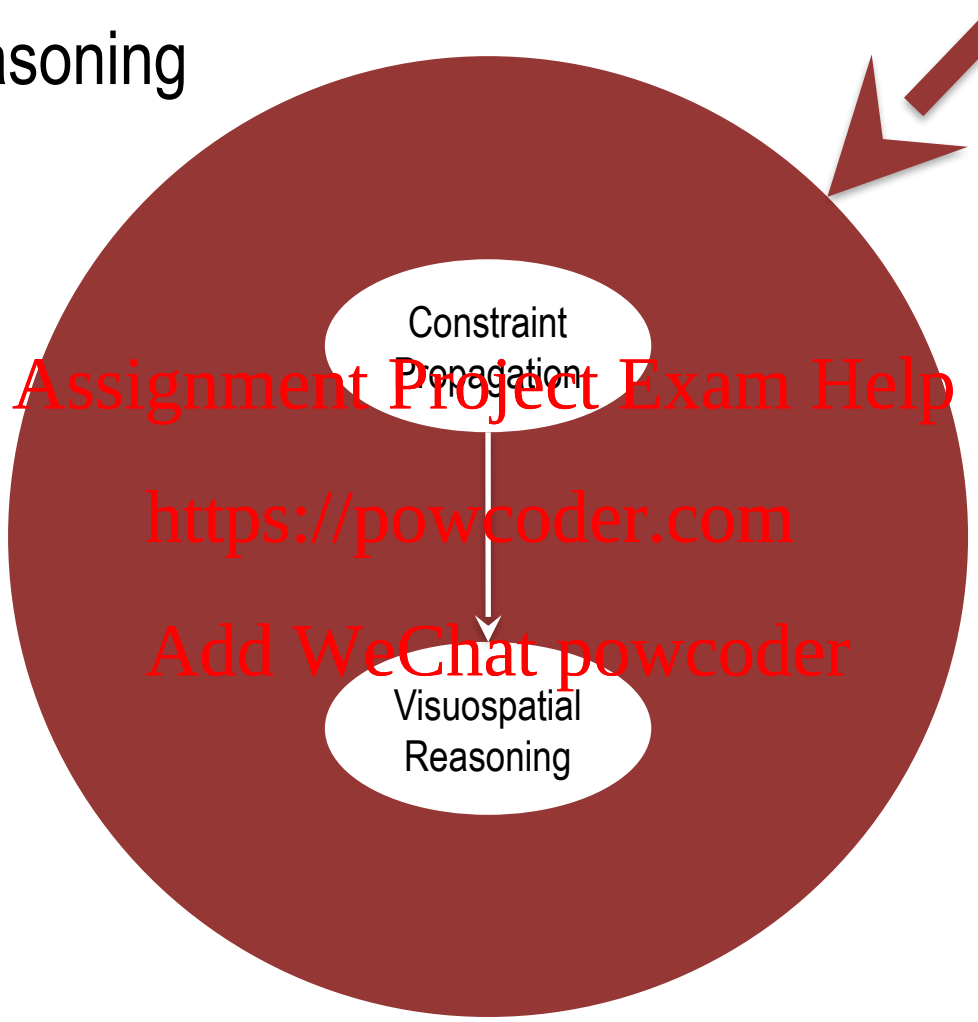
Visuospatial Reasoning



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Lesson Preview

- Definition
- Image processing
- Natural language understanding
- Advanced problems

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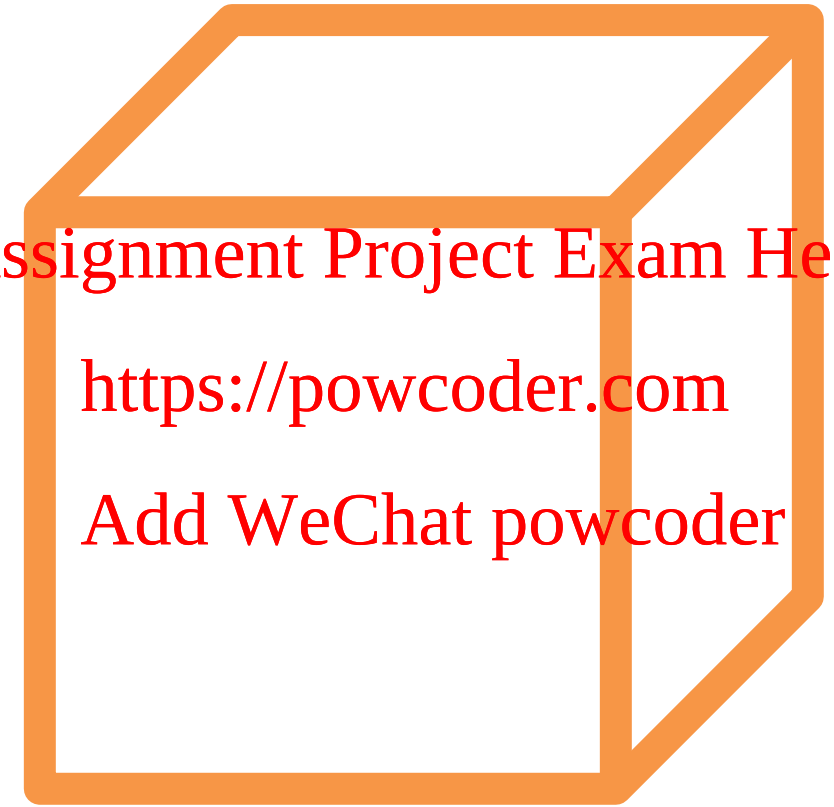

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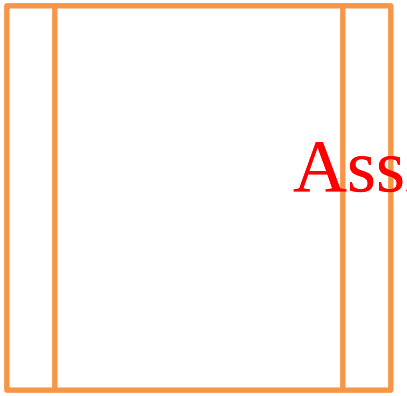
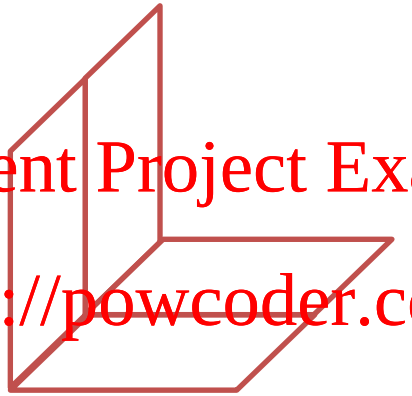
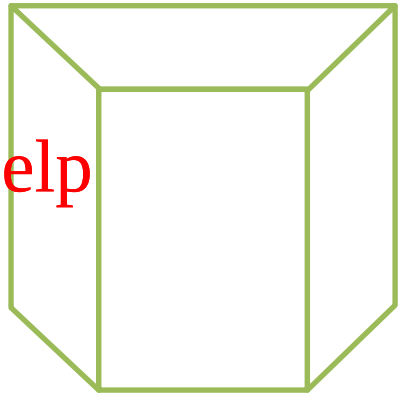
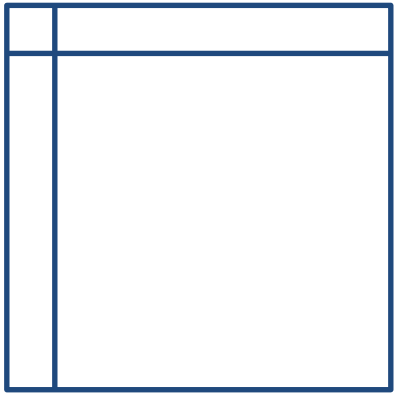
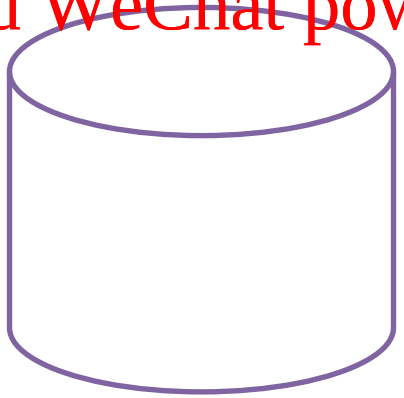
Which of these wireframes depicts a 3D figure that could exist in the real world?

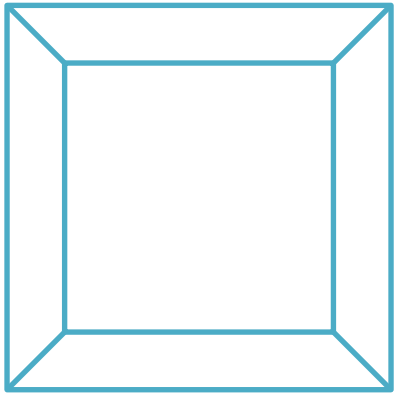
o 

o 

o 

o 

o 

o 

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Which of these sentences are grammatically correct?

- Colorless green ideas sleep furiously.
- Soft drinks due from thank bills insurance.
- The treating physician persons the following excluded tasty.
- Wall decor notifies business cards of nonsensical whims.
- Tuesday brought a sharp-edged suite of pumpernickel.
- Go search or revoke to writing this present understand.

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Constraint propagation: a method of inference that assigns values to variables characterizing a problem in such a way that some conditions (called constraints) are satisfied.

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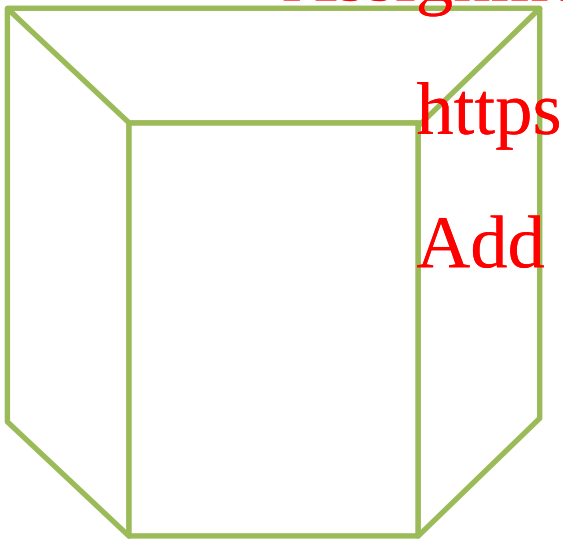
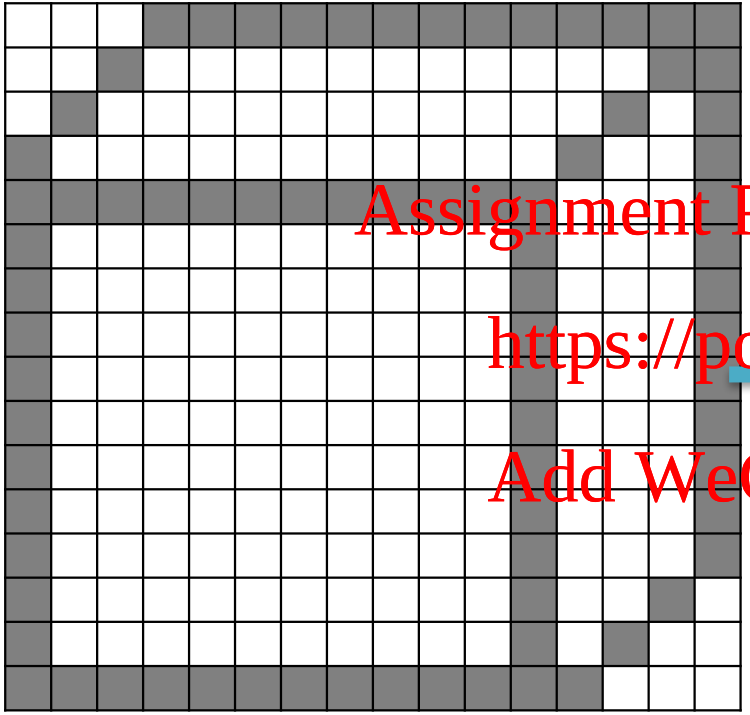
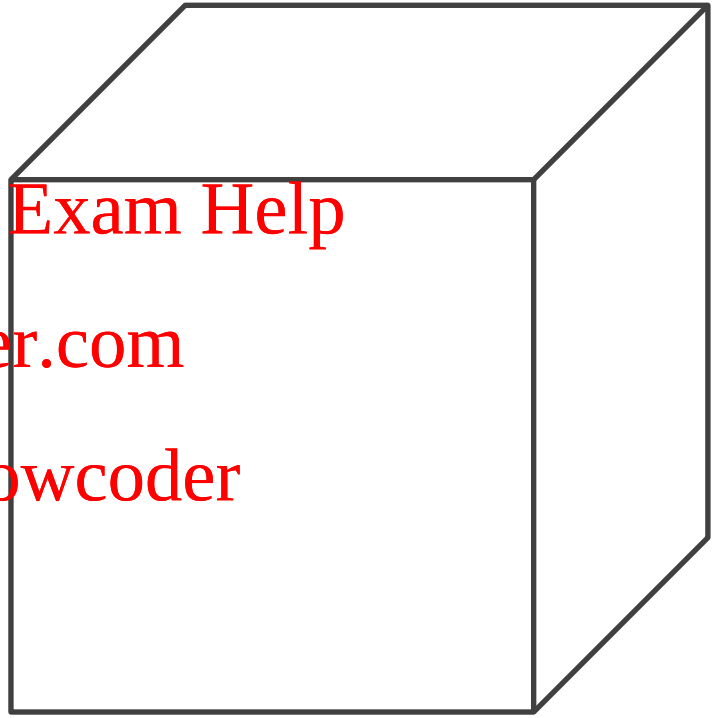


Colorless green ideas sleep furiously.

Pixels

Lines





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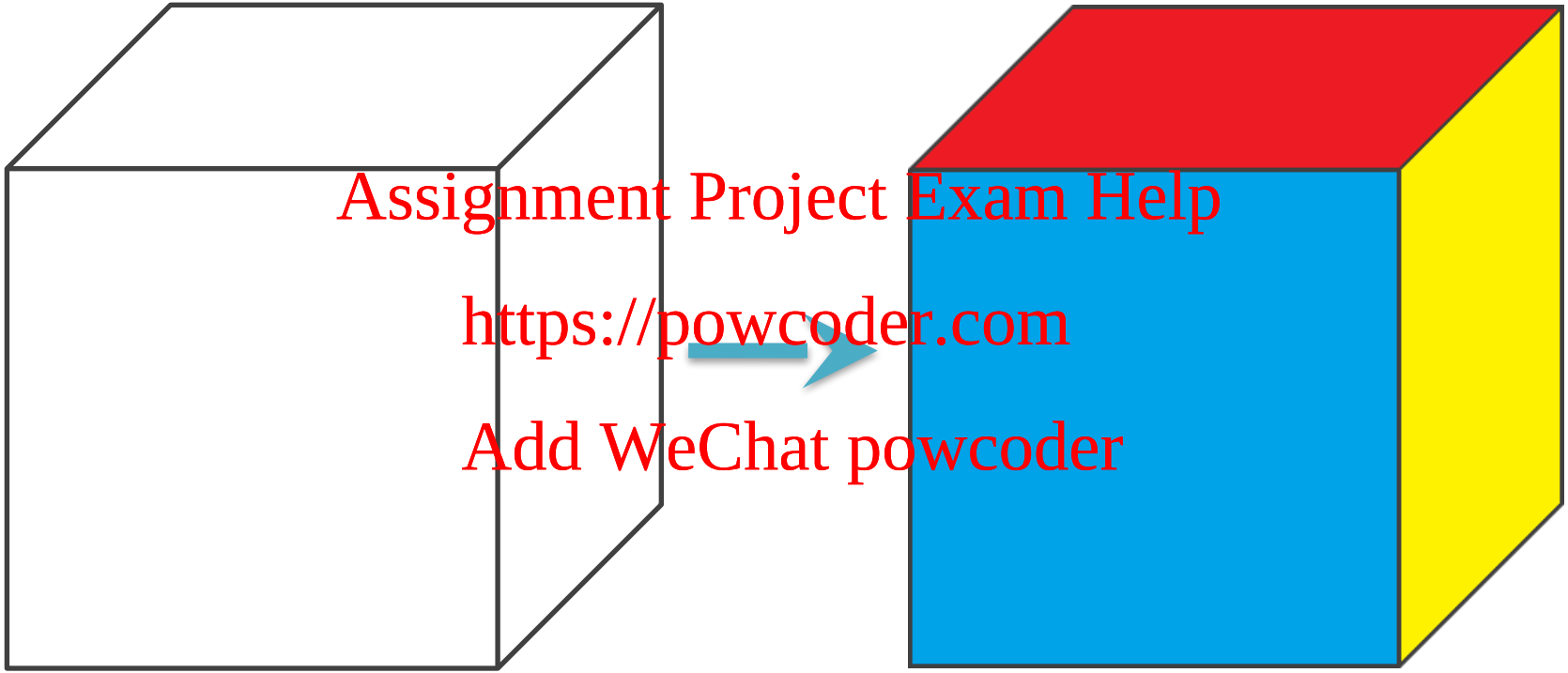
Lines

Surfaces



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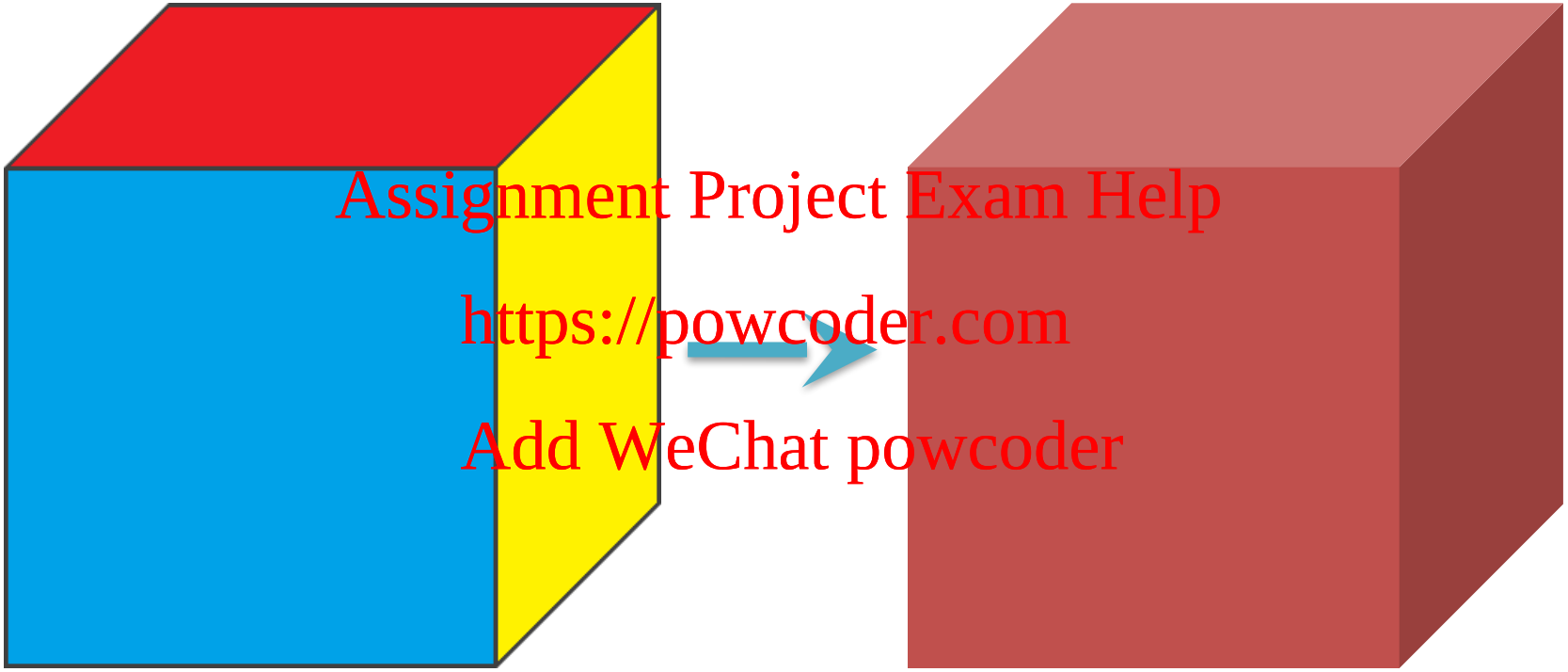
Surfaces

3D



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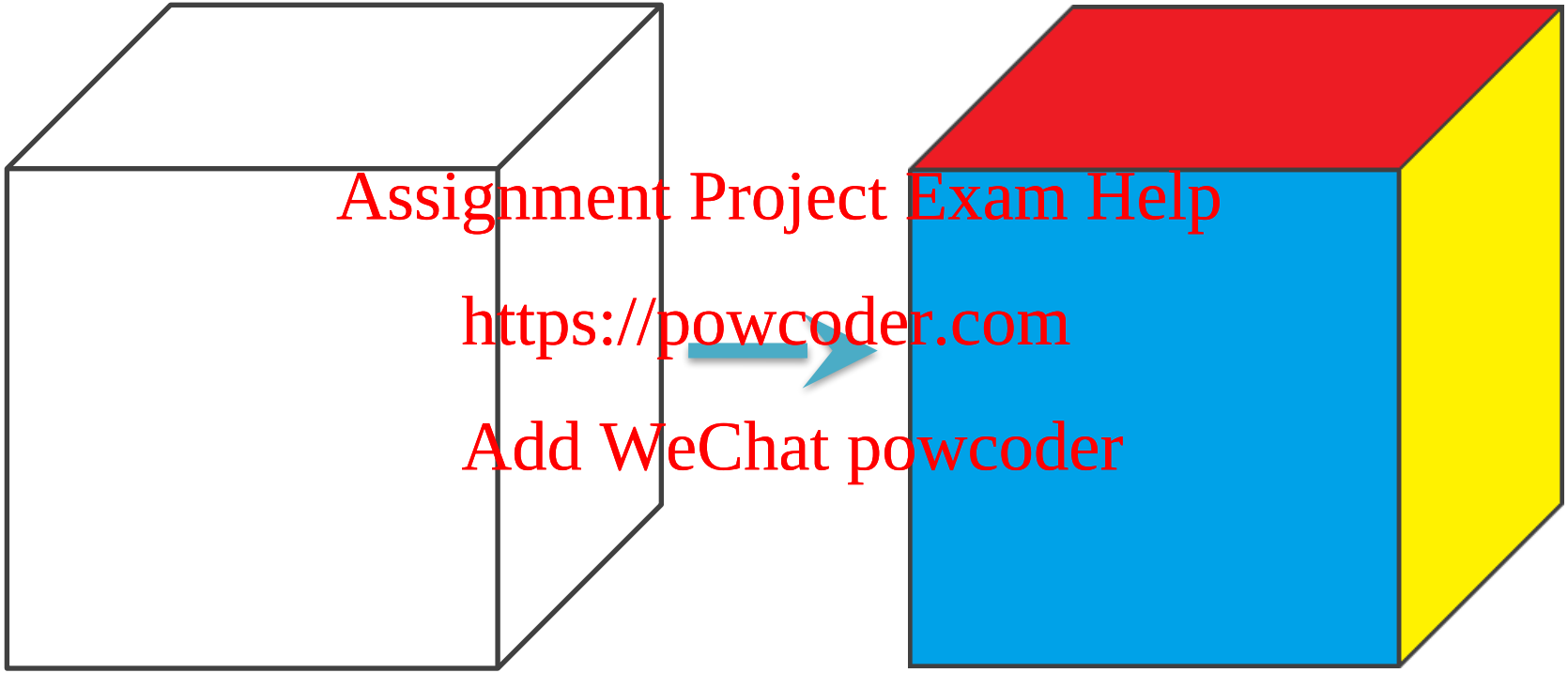
Lines

Surfaces



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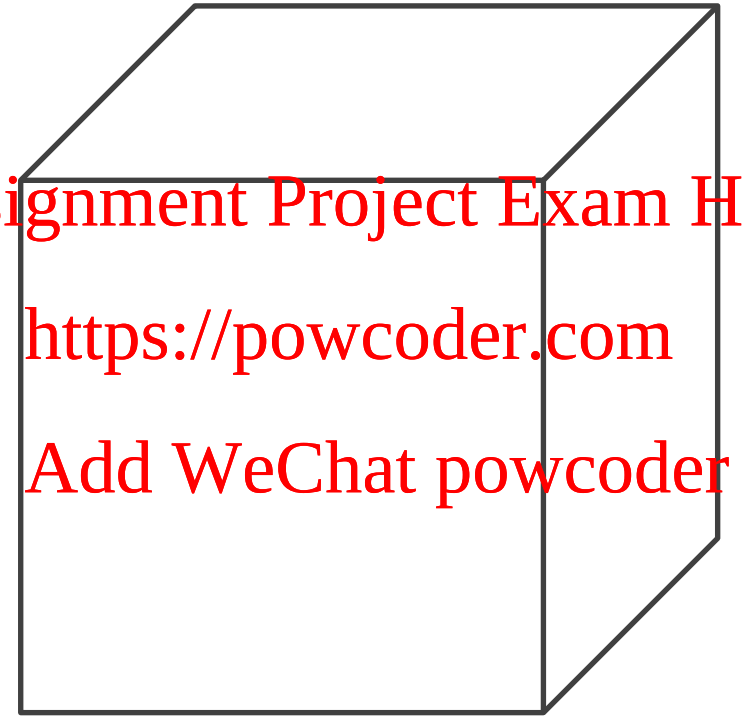

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Constraints

Y-Constraint

W-Constraint

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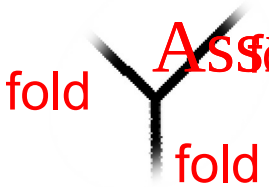
L-Constraint

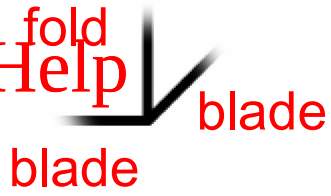
T-Constraint

Constraints

Y-Constraint



W-Constraint



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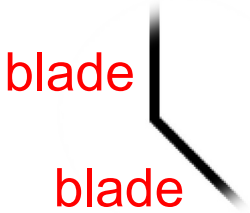
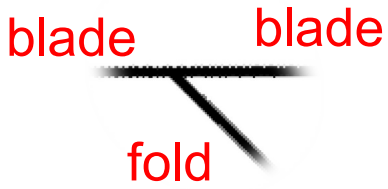
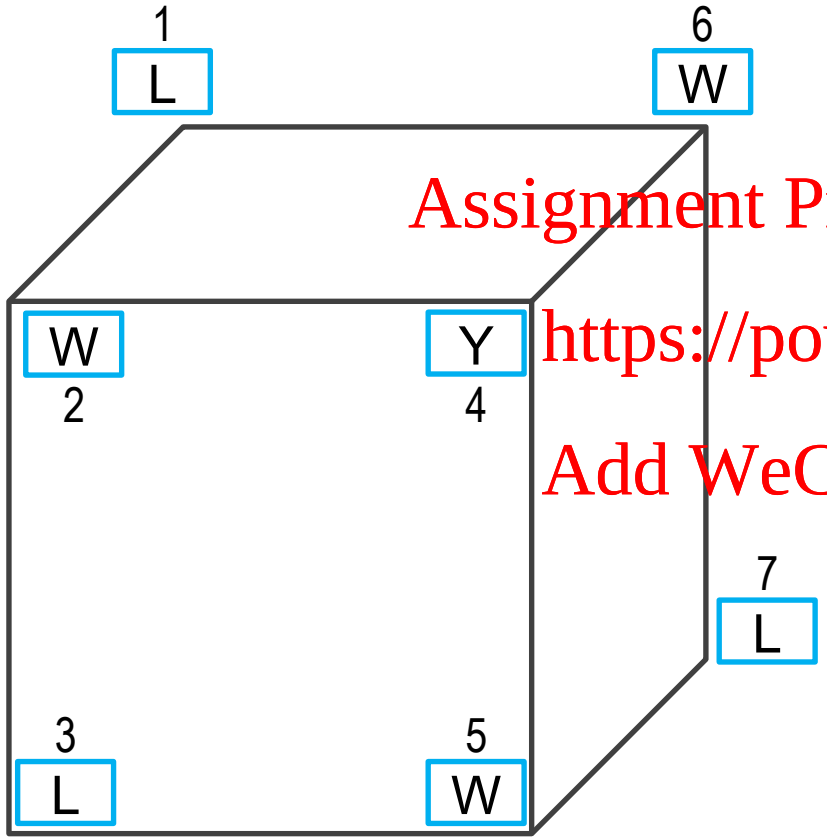
L-Constraint



T-Constraint



Label each intersection according to the applicable constraint on the right.



Y-Constraint

W-Constraint

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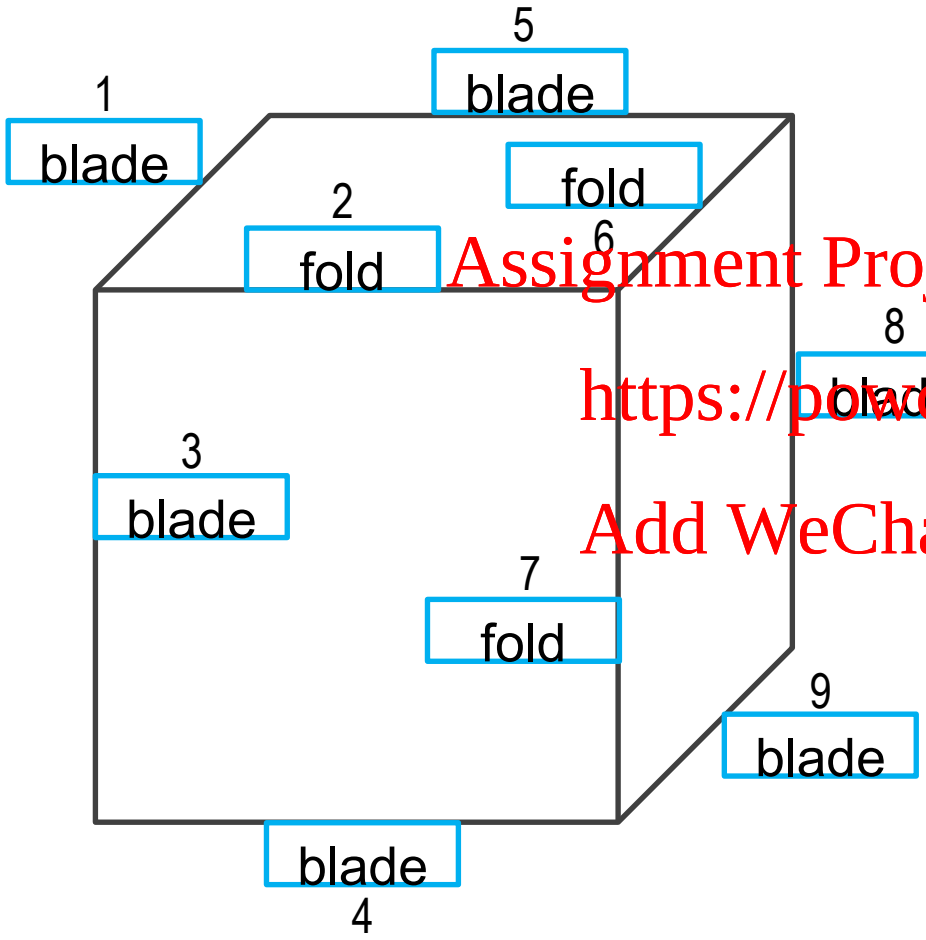
L-Constraint

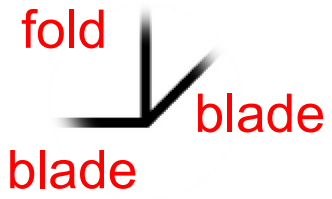
T-Constraint

Label each line according to the constraint on the right.



Y-Constraint

W-Constraint



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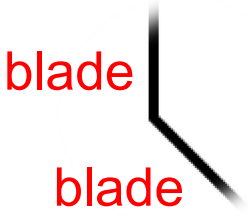

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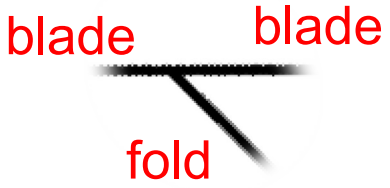

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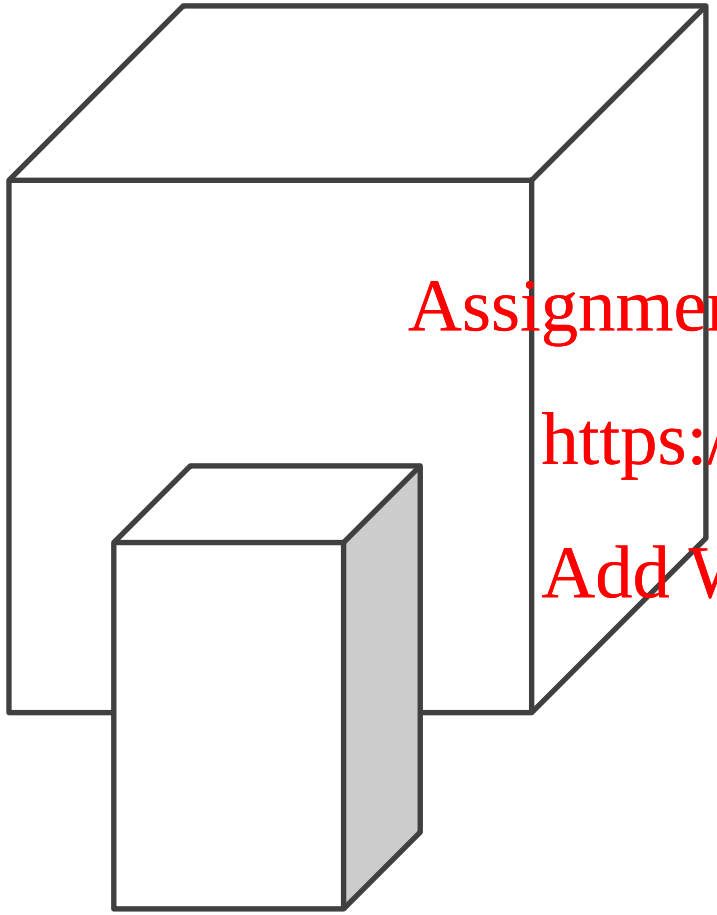

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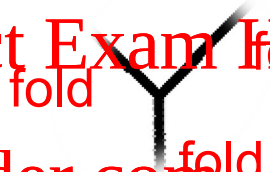

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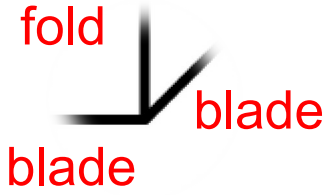

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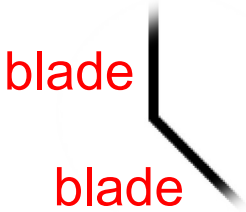

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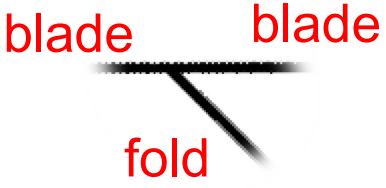

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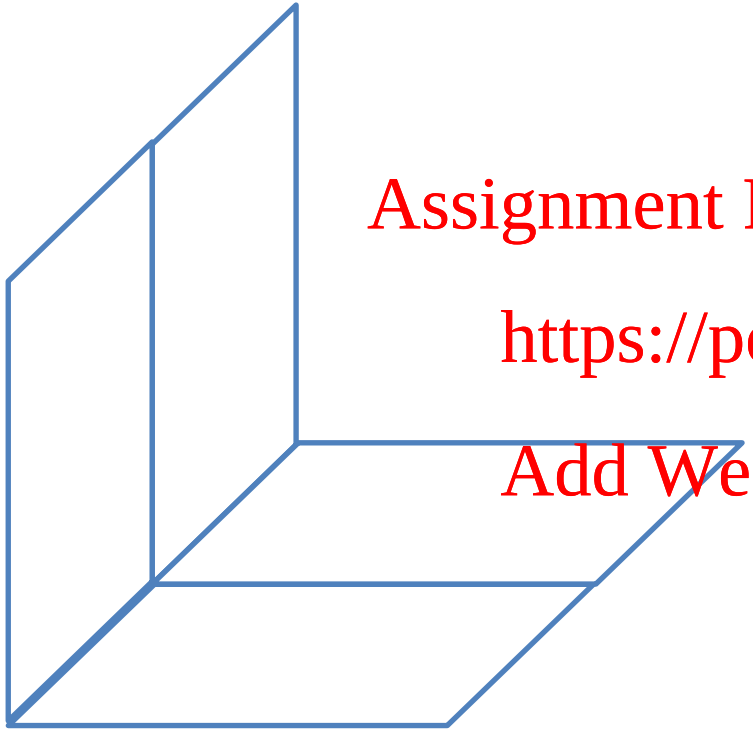

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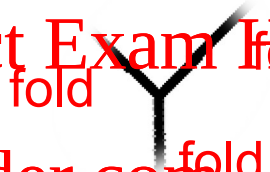

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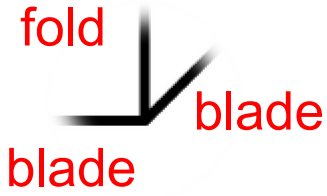

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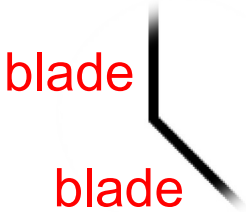
L-Constraint



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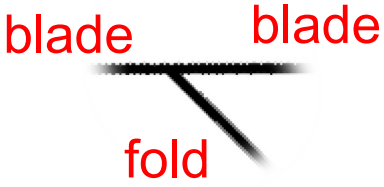

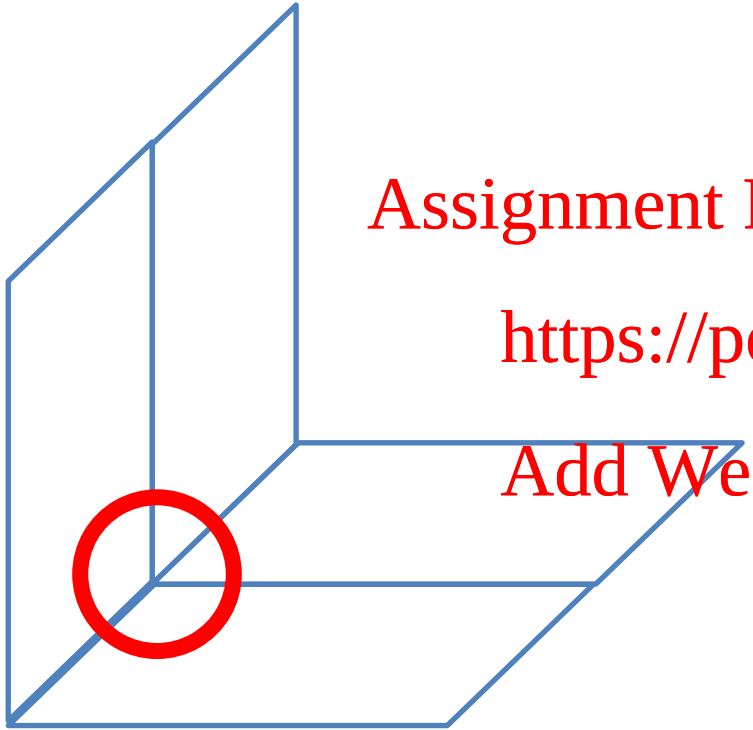

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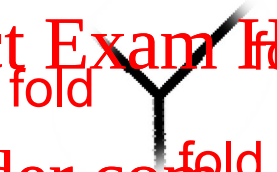

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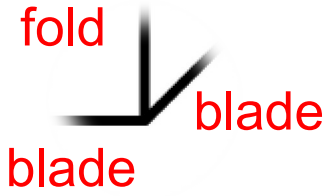
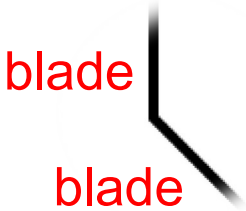


L-Constraint



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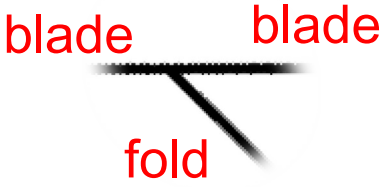

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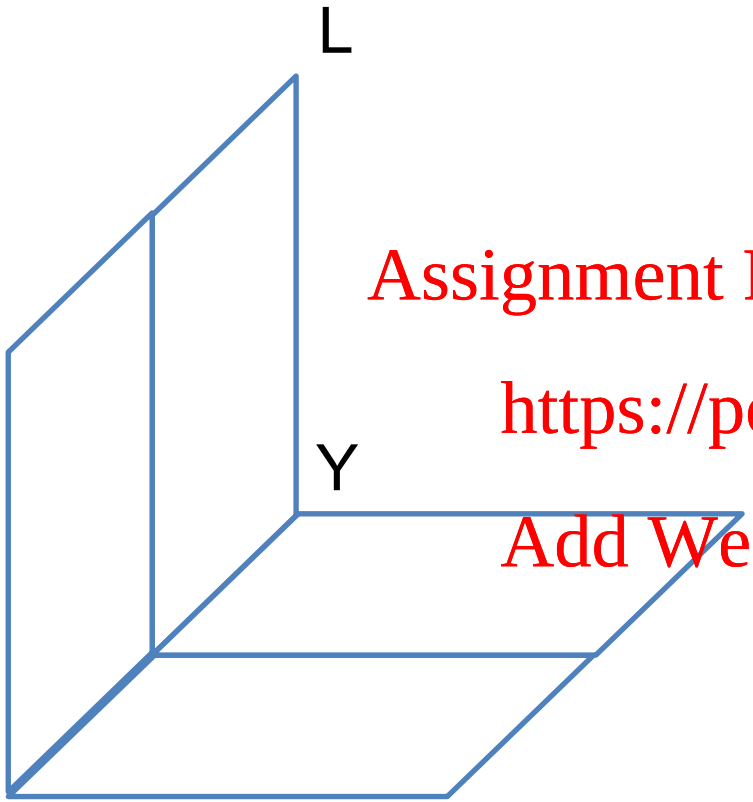

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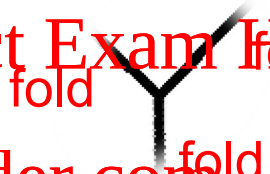

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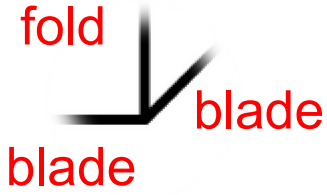

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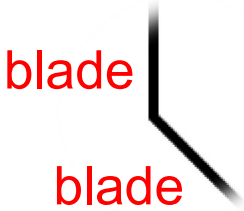
L-Constraint



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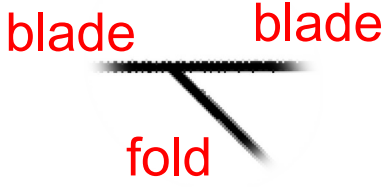

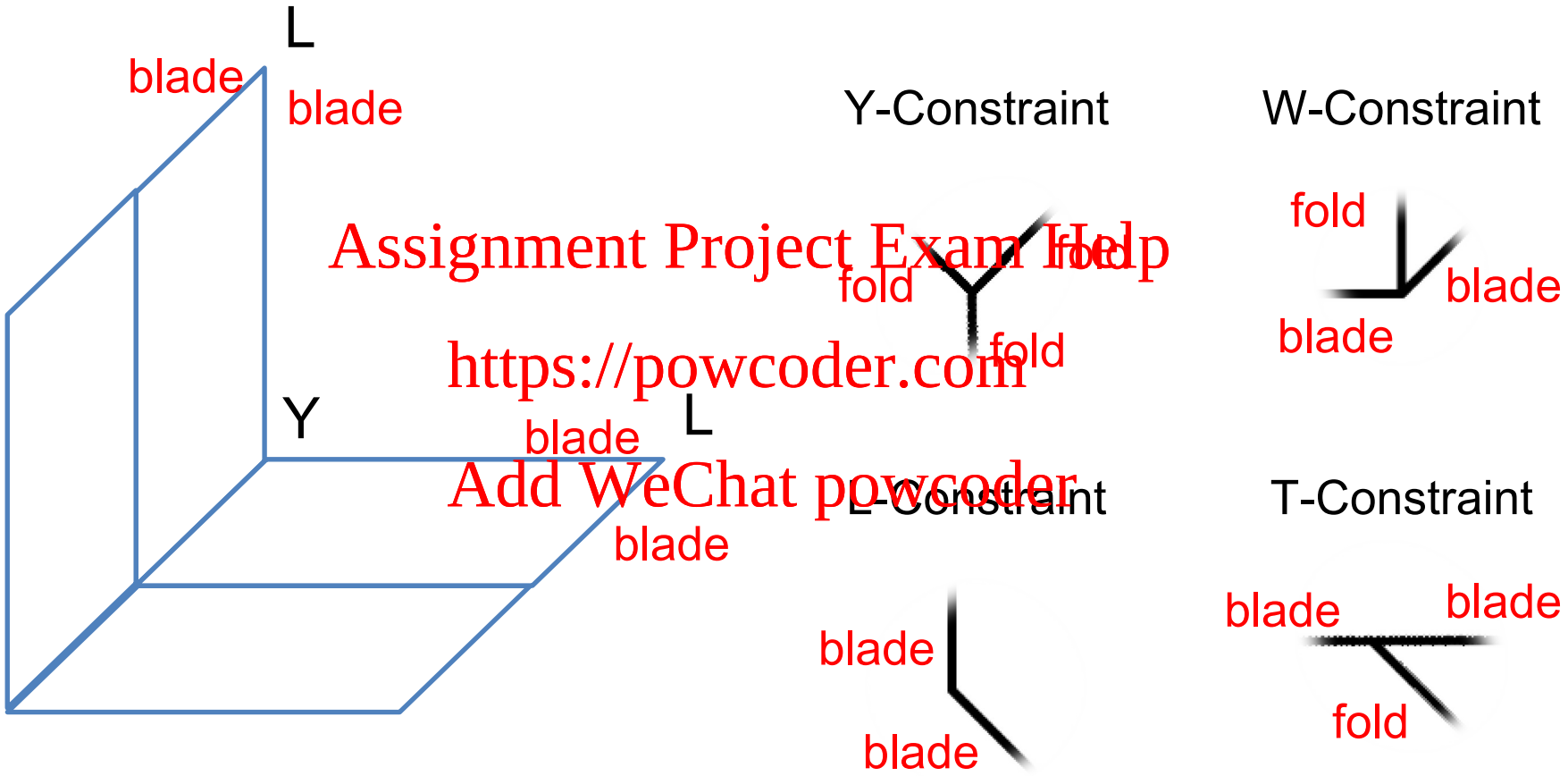

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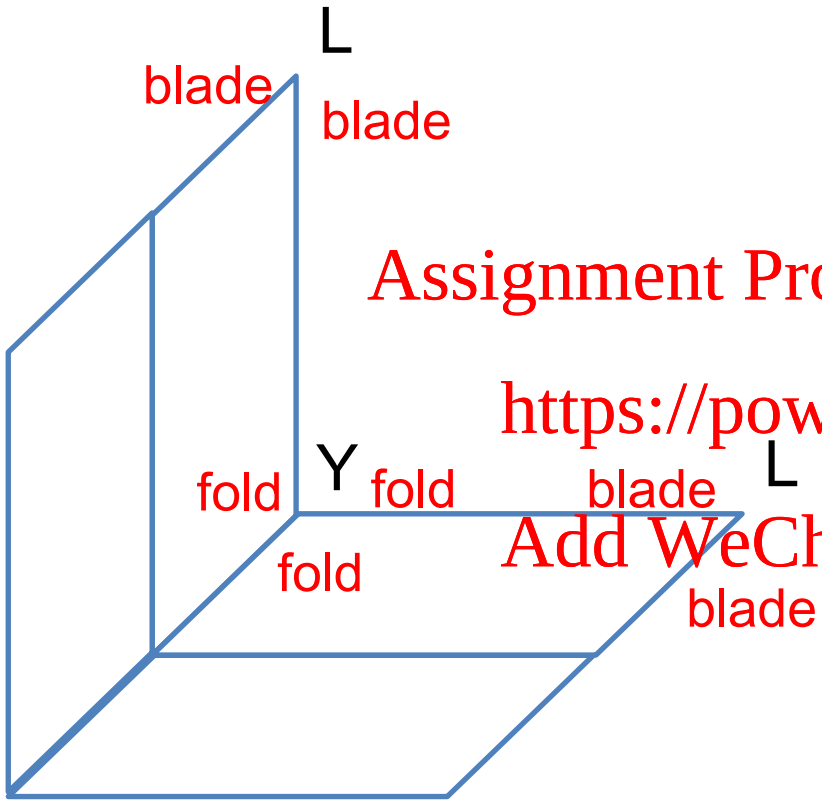
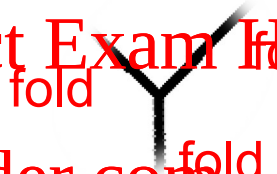
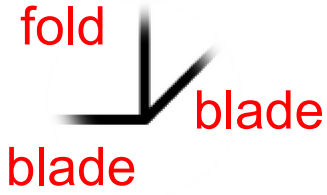


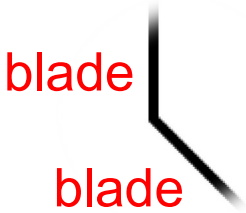
Y-Constraint



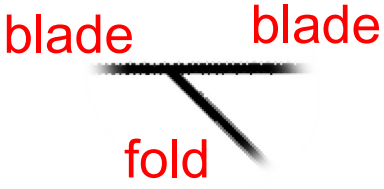
W-Constraint



L-Constraint



T-Constraint



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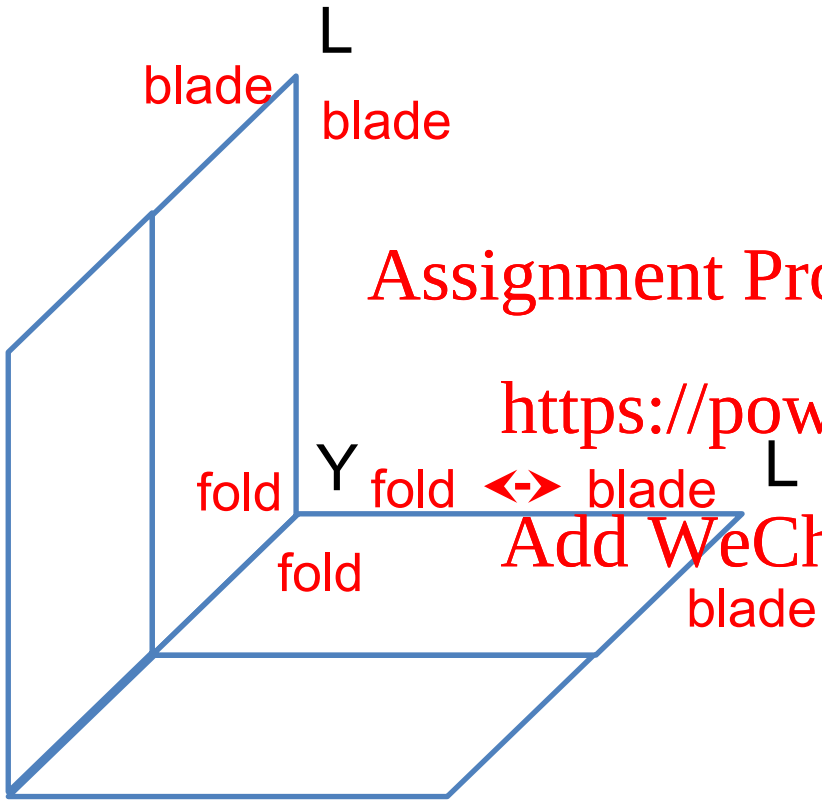
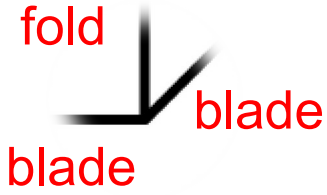
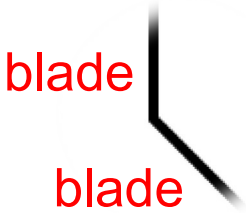


Y-Constraint

W-Constraint



L-Constraint



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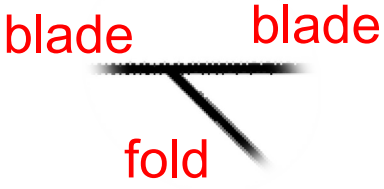

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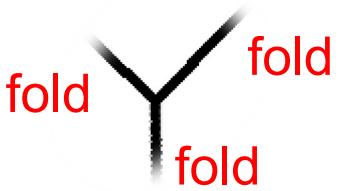
Y-Constraint



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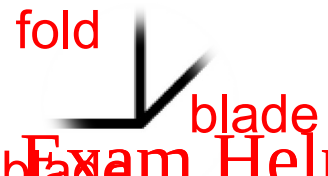

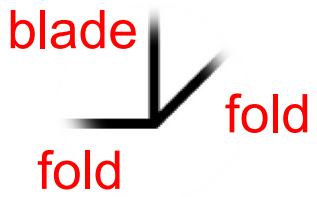

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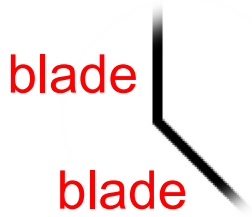
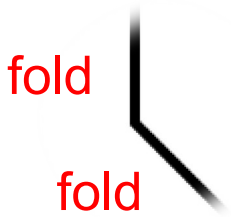
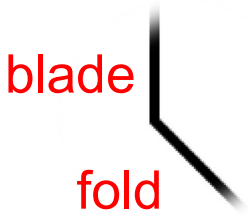
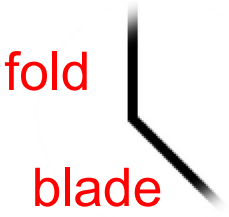
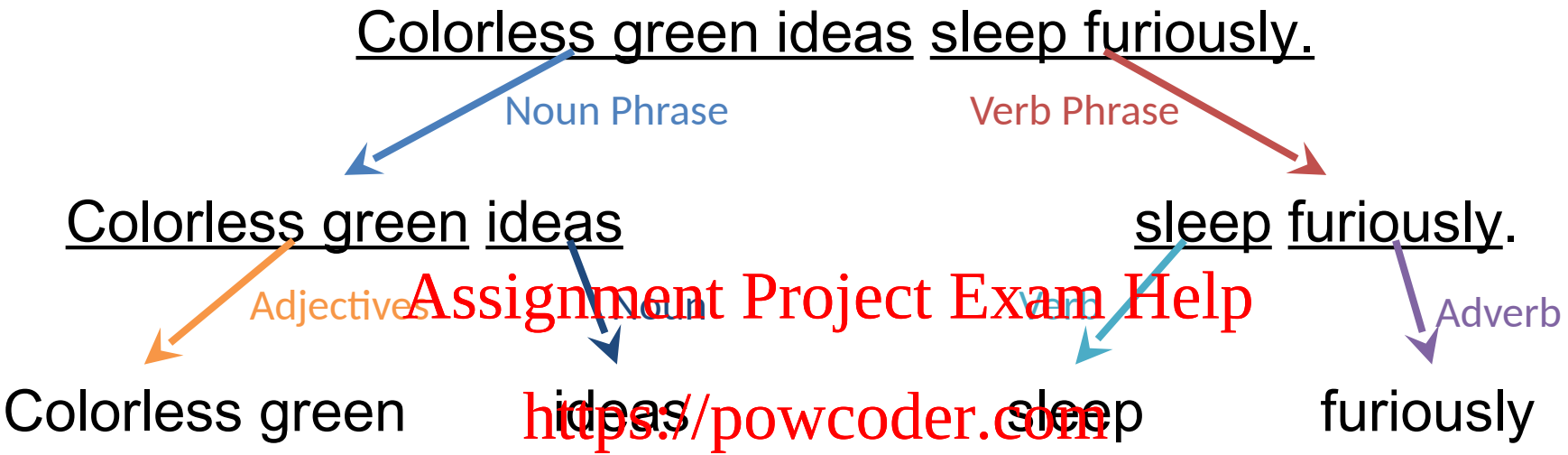
L-Constraint











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Constraints:

Sentence = Noun Phrase + Verb Phrase

Noun Phrase = [Adjectives] + (Noun or Pronoun)

Verb Phrase = Verb + [Adverb]

Soft drinks due from thank bills insurance.

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Constraints:

Sentence = Noun Phrase + Verb Phrase

Noun Phrase = [Adjectives] + (Noun or Pronoun)

Verb Phrase = Verb + [Adverb]

Assignment

How would you use constraint propagation to design an agent that could answer Raven's progressive matrices?

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To recap…

- Definition
- Image processing
- Natural language understanding
- Advanced problems

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