When Opposite Bond Pulls Do Not Cancel

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (2)

K has a horizontal sum of −4 + 4 = 0 and a vertical sum of 3 + 8 = 11.

Question 2

The vertical total is 0 for J and 11 for K. Both horizontal totals are zero, but K has a nonzero vertical component while J has zero in both directions.

Question 3

Both vertical components reverse, giving −3 and −8. Their sum is −11.

Question 4

The same positive reading fails to follow the reversal of both bond arrows. The rotated model predicts −11, so the display readings are inconsistent with the model and should be checked.