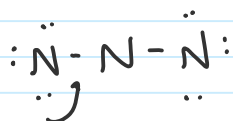


N3-

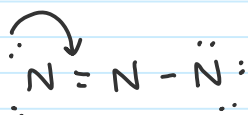
$$T = (5 \times 3) + 1 = 16$$



$$16 - 2(2) = 12$$

$$12 - 2(6) = 0$$

Trial 1
did
not
work



$$FC_L = 5 - 4 - 2 = -1$$

$$FC_M = 5 - 3 = +2$$

$$FC_R = 5 - 6 - 1 = -2$$

↑
terrible

Trial 2
did
not
work



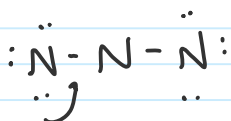
$$FC_L = 5 - 2 - 3 = 0$$

$$FC_M = 5 - 3 - 1 = +1$$

$$FC_R = 5 - 6 - 1 = -2$$

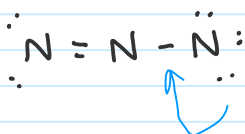
↑
terrible

Trial 3
worked

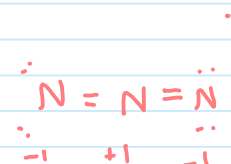


$$16 - 2(2) = 12$$

$$12 - 2(6) = 0$$



up to here like Trial 1
now try something different
instead of a triple bond



$$FC_L = 5 - 4 - 2 = -1$$

$$FC_M = 5 - 4 = +1$$

Total FC for the molecule: $-1 + 1 + (-1)$
= -1, just like the given charge.



