3-D Representation of $(A+B)^3=A^3+3A^2B+3AB^2+B^3$

Instructions

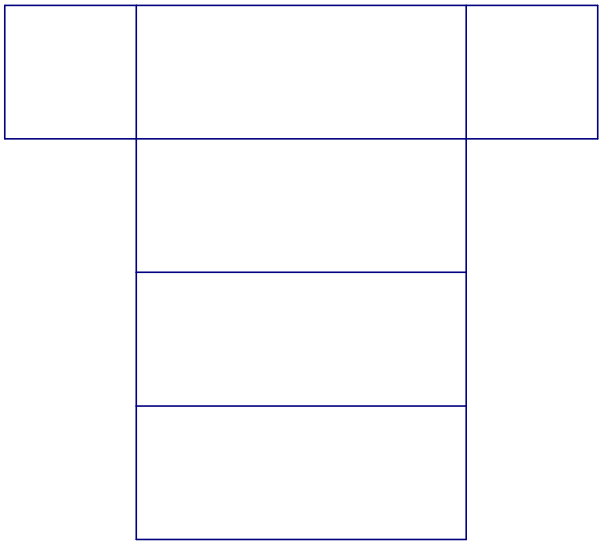
- Cut out each of the eight nets.
- Color each size of net a different color (For example, so all nets for A^2B are the same color).
- Fold each net along the lines and tape together into a rectangular solid.
- Construct a cube out of the individual rectangular solids so that the length of each side is A+B.
- Note that the combined volume of the eight nets add up to $(A+B)^3=A^3+3A^2B+3AB^2+3B^2$

Source:

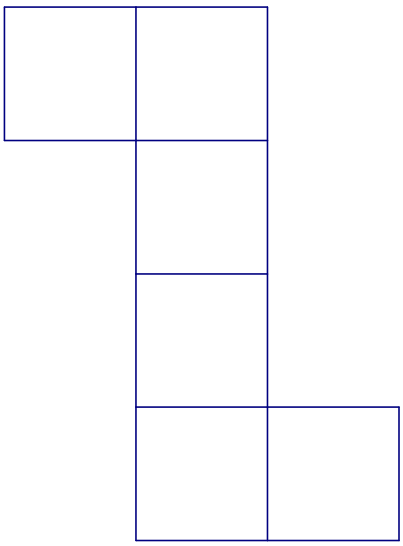
http://www.lifeisastoryproblem.net/algebra/apb3.pdf

3-D Representation of $(A+B)^3=A^3+3A^2B+3AB^2+B^3$

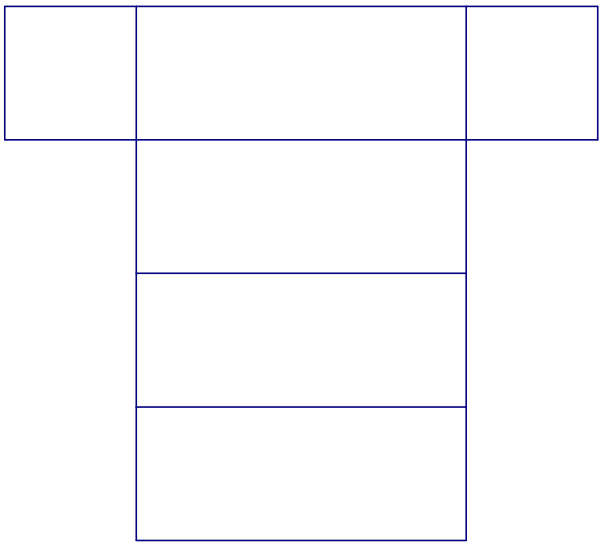
A^2B



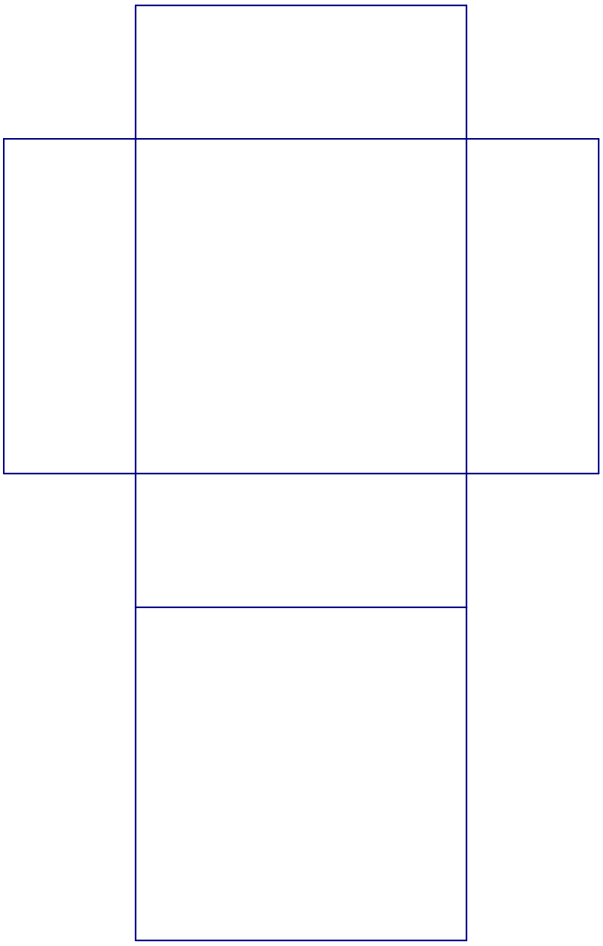
A^3



A^2B



AB^2



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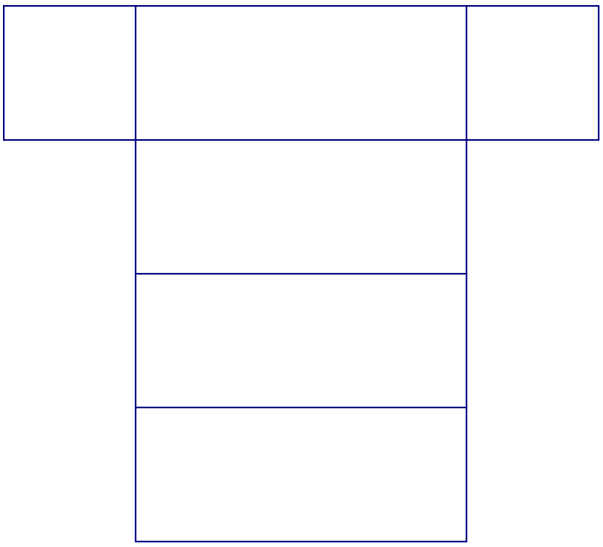
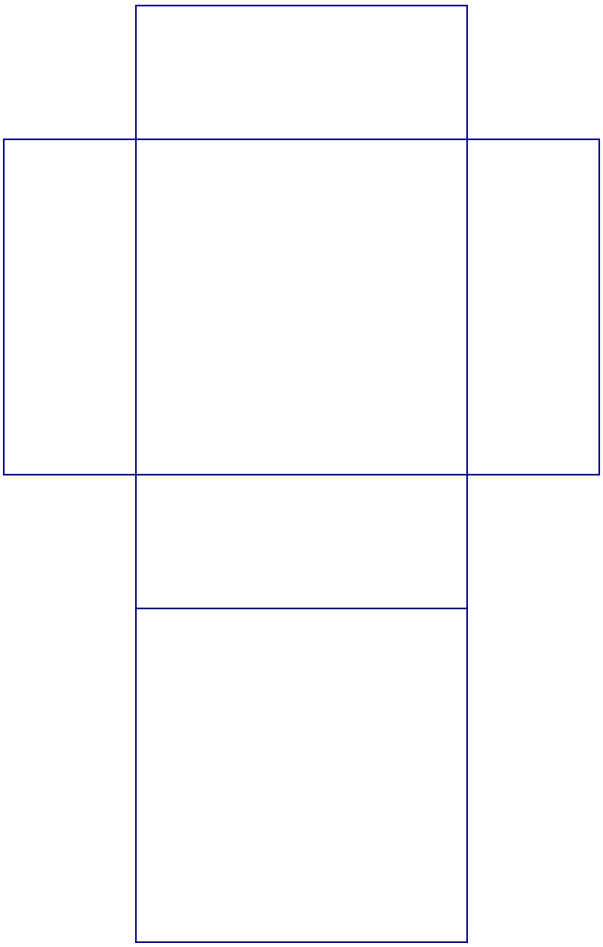
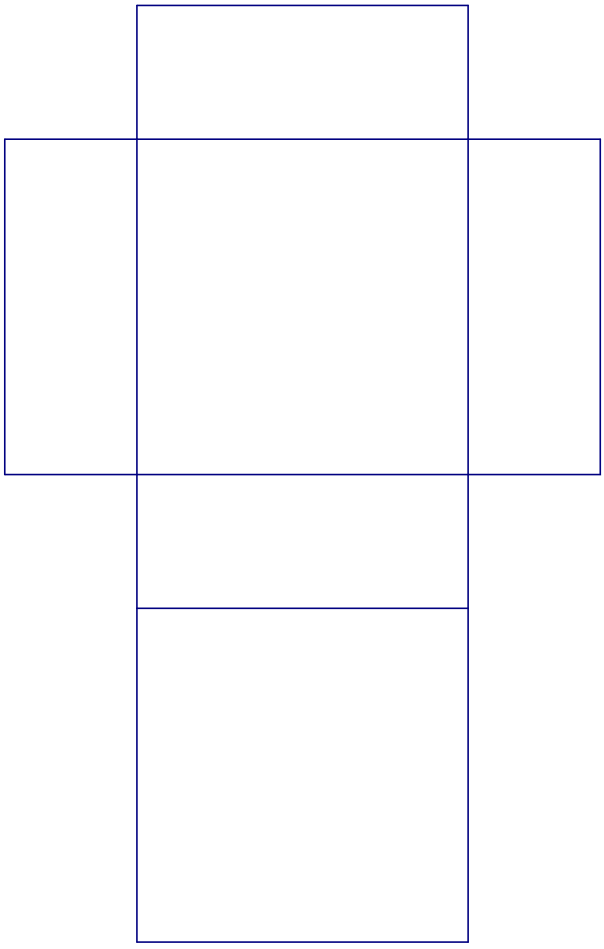
A^2B



AB^2



AB^2



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