

Costruire una mappa (integrazioni)

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OPERAZIONI TRA POLINOMI

SOMMA (+) DI DUE POLINOMI

calcolo la somma algebrica dei monomi simili (con la stessa parte letterale)

$$2a^3bc + 4ab^2 + 3ac^3 + \\ + (a^3bc - 6ab^2 - 2ac^3) = \\ - 3a^3bc - 2ab^2$$

DIFFERENZA (-) TRA DUE POLINOMI

cambio i segni dentro la parentesi e calcolo la somma algebrica dei monomi simili (con la stessa parte letterale)

$$a^3 - 5a^2x + 3ax^2 - (4ax^2 + a^3 - 2a^2x) = \\ a^3 - 5a^2x + 3ax^2 - 4ax^2 - a^3 + 2a^2x = \\ - 3a^2x - ax^2$$

PRODOTTO (X) DI UN MONOMIO PER UN POLINOMIO

moltiplico il monomio per ogni elemento del polinomio. Ottengo lo stesso numero di elementi del polinomio di partenza

$$\frac{1}{2}ab^2 \cdot (4a^2 - 3ab) = \\ = 2a^3b^2 - \frac{3}{2}a^2b^3$$

PRODOTTO (X) TRA DUE POLINOMI

moltiplico ogni elemento del primo polinomio per ogni elemento del secondo polinomio

$$(a - 2b^2) \cdot (7a^2 - ab) = \\ 7a^3 - a^2b - 14a^2b^2 + 2ab^3$$

Software a pagamento

- Supermappe
- https://www.youtube.com/watch?v=_7Vf_nOTKW0
- Ipermappe
- Visio
- MindMaple Premium
- Altre versioni premium

NB: i software citati sono solo indicativi.

Esistono molti altri software per le mappe

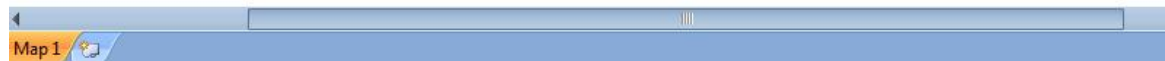
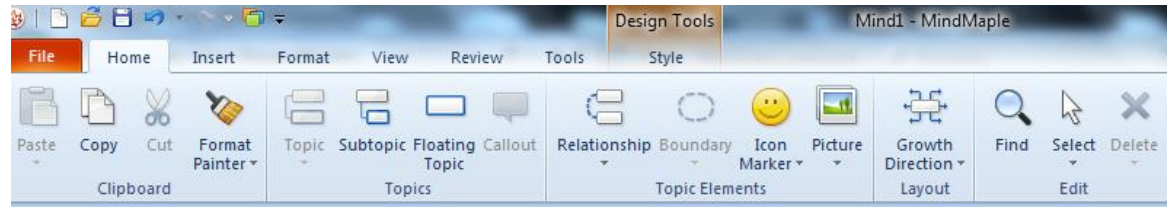
.. E se la voglio creare con un software gratuito?

- www.mindmaple.com
- Freemind
- Cmap
- <https://www.draw.io>
- ...

Software online

- <https://www.mindmup.com/> per mappe mentali

Mappa con MindMaple

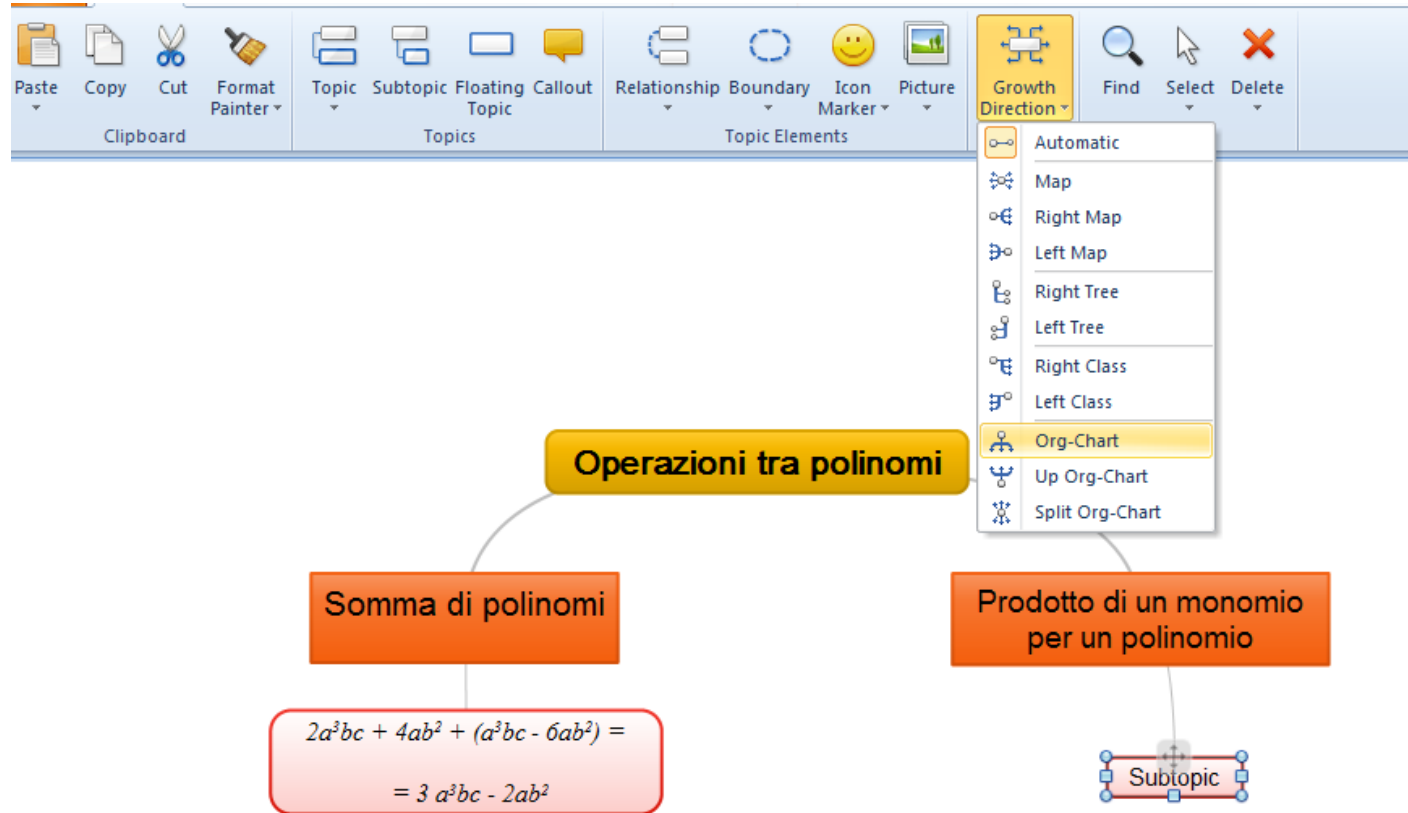


Aggiungere un nodo

The image shows a Microsoft Word interface. On the left, a shape gallery is open, displaying a grid of colored rounded rectangles. The top ribbon includes the 'Style' tab, with options for 'Branch Shape' and 'Branch Outline'. The 'Font' section shows 'Arial' as the selected font, with options for bold, italic, underline, and text color. The 'Layout' section includes 'Fit to text' and 'Picture Placement'. Below the gallery, a diagram is visible. It consists of an orange rounded rectangle with the text 'Somma di polinomi'. A callout box, which is a yellow rounded rectangle with the text 'Operazioni tra polinomi', is connected to the orange box by a thin grey line. Below the orange box, a pink rounded rectangle contains the following mathematical equation:

$$\begin{aligned} 2a^3bc + 4ab^2 + (a^3bc - 6ab^2) &= \\ &= 3a^3bc - 2ab^2 \end{aligned}$$

Mentale o concettuale?



E le immagini?

The image shows a Microsoft Word 2010 interface with a mind map and a context menu. The mind map has a central yellow node "Operazioni tra polinomi" connected to two orange nodes: "Somma di polinomi" and "Prodotto di un polinomio per un polinomio". Below "Somma di polinomi" is a pink box containing the equation $2a^2bc + 4ab^2 + (a^2bc - 6ab^2) = 3a^2bc - 2ab^2$. Below "Prodotto di un polinomio per un polinomio" is a pink box labeled "Subtopic". A context menu is open over the "Subtopic" box, showing options like "Cut", "Copy", "Paste", "Edit text box", "Delete Topic Including Childs", "Font...", "Format Topic...", "Insert", "Icon Marker", "Text Marker", "Notes", "Image", "Add Attachment", and "Add Hyperlink". The ribbon at the top includes "File", "Home", "Insert", "Format", "View", "Review", "Tools", and "Style". The "Style" ribbon has "Clipboard", "Topics", "Topic Elements", "Layout", and "Find" groups. The right sidebar shows "Task Complete(%)" and "Single Icons" sections.

Operazioni tra polinomi

Somma di polinomi

$$2a^2bc + 4ab^2 + (a^2bc - 6ab^2) = 3a^2bc - 2ab^2$$

Prodotto di un polinomio per un polinomio

Subtopic

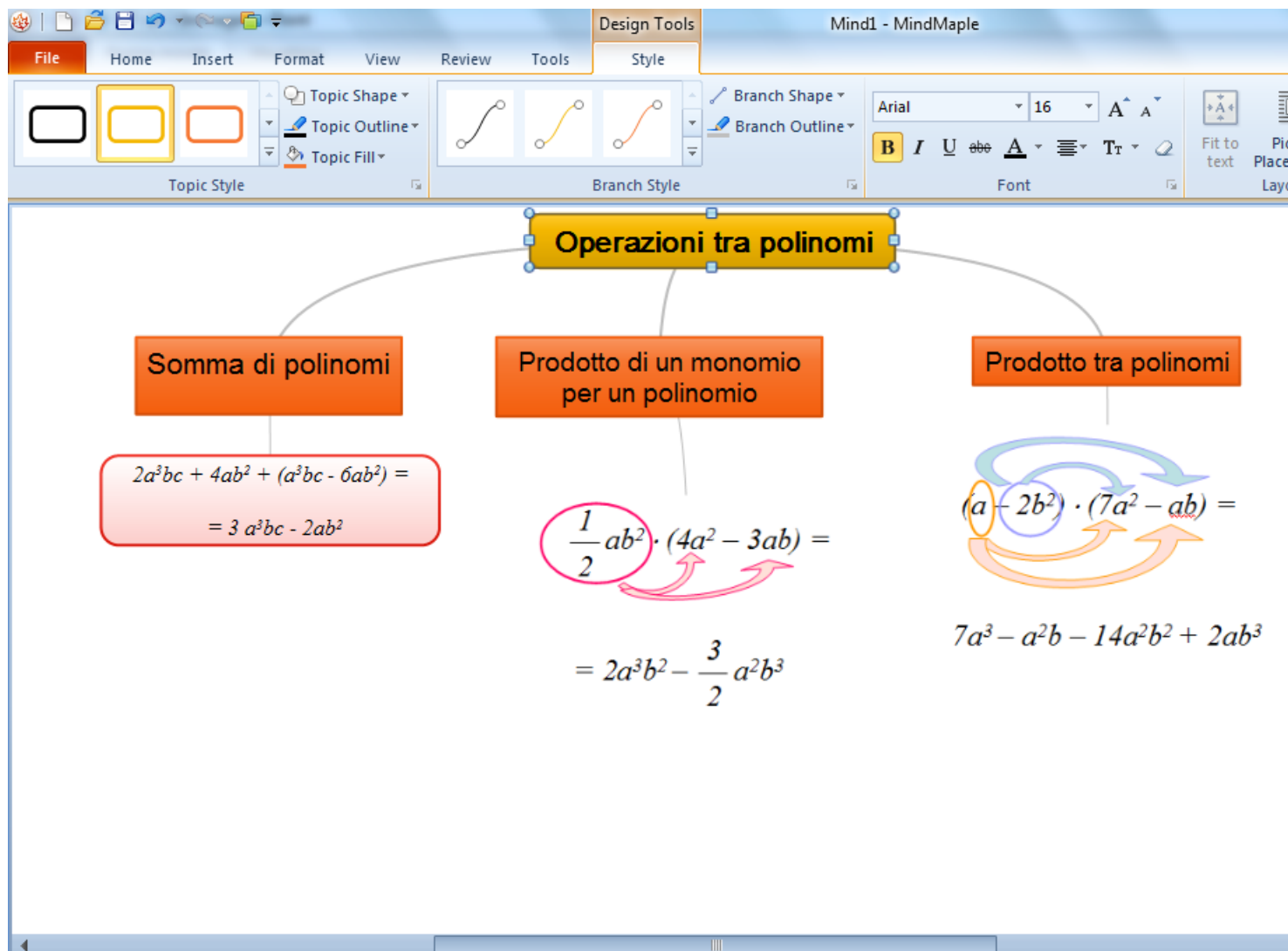
File Home Insert Format View Review Tools Style

Paste Copy Cut Format Painter Topic Subtopic Floating Topic Callout Relationship Boundary Icon Marker Picture Growth Direction Find

Cut Ctrl+X
Copy Ctrl+C
Paste
Edit text box
Delete Topic Including Childs Del
Delete Only Selected Topic Ctrl+Shift+Del
Detail
Font... Ctrl+Shift+T
Format Topic... Ctrl+1
Insert
Icon Marker
Text Marker
Notes F11
Image
Add Attachment
Add Hyperlink Ctrl+K

Paste Ctrl+V
Paste Inside
Paste Hyperlink
Paste Notes
Paste Bitmap
Paste as Callout
Paste Multiline
Paste Special Ctrl+Alt+V
Priority5
Task Complete(%)
Not started
Quarter done
Half done
Three quarters done
Task done
Smileys
Arrows
Flags
Single Icons
Icon Marker
Text Marker

Mappa con MindMaple



Stili e colori

The image shows a screenshot of the MindMaple software interface. The main window displays a mind map with a central node titled "Operazioni tra polinomi" (Operations on polynomials) in a blue box. Two main branches are visible: "Somma" (Sum) in an orange box and "Prodotto di un monomio" (Product of a monomial) in an orange box. The "Somma" branch contains the mathematical formula $2a^3bc + 4ab^2 + (a^3bc - 6ab^2) = 3a^3bc - 2ab^2$ in a pink box. The "Prodotto di un monomio" branch contains the formula $(a - 2b^2) \cdot (7a^2 - ab) = 7a^3 - a^2b - 14a^2b^2 + 2ab^3$ in a pink box. The "Prodotto tra polinomi" (Product of polynomials) branch is also in an orange box and contains a diagram illustrating the multiplication of $(a - 2b^2)$ and $(7a^2 - ab)$ with arrows showing the distribution of terms. A "Design Tools" ribbon is visible at the top, with the "Style" tab selected. A "Theme Color" palette is open, showing various color options. A "No Gradient" palette is also visible, showing a grid of blue color variations. The software interface includes a menu bar (File, Home, Insert, Format, View, Review, Tools, Style) and a ribbon with various styling options like Topic Shape, Branch Shape, Font, and Picture Placement.

Esportare MindMaple

