

```
veilor as multipleying
         Å multiplying B
    \overrightarrow{A} = A_{x} \overrightarrow{i} + A_{y} \overrightarrow{j} \qquad \overrightarrow{B} = B_{x} \overrightarrow{i} + B_{y}
               = A,B, + AyBy

Axi + Ayj) (Bxi + Byj

Axi Bxi + Axi Byi + A

AxBx + AyBy.
                                                                                                     · 455 0°=1
\overrightarrow{A} \times \overrightarrow{B} = (A_x \hat{i} + A_y \hat{j}) \times (B_x \hat{i} + B_y \hat{j})
        = AnBnixi + AnByixi+AyBnjxi
+ AyByixi
                    AxBy
                                                                                  1 × j =
                       AxBy - Ay Be
                             - AB sind
```