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| --- | --- | --- | --- | --- | --- | --- |
| ***Vector*** | ***x component equation*** | ***x component equation*** | ***x component value*** | ***y component equation*** | ***y component equation*** | ***y component value*** |
| **A** | $$A\_{x}=Acosθ$$ |  |  | $$A\_{y}=Asinθ$$ |  |  |
| **B** | $$B\_{x}=Bcosθ$$ |  |  | $$B\_{y}=Bsinθ$$ |  |  |
| **RESULTANT****COMPONENTS** | **Σ of x components:** | **Rx=** | **Σ of y components:** | **Ry=** |
| **RESULTANT Magnitude** | $$R=\sqrt{R\_{x}^{2}+R\_{y}^{2}}$$ |  |
| **RESULTANT Direction** | $$θ=tan^{-1}\frac{R\_{y}}{R\_{x}}$$ |  |

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| --- | --- | --- | --- | --- | --- | --- |
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