## Cheatography

## Geometry Semester 1 Cheat Sheet

 by ryanagnos01 via cheatography.com/51096/cs/14028/

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## Properties

| Name | Property of Equality |
| :--- | :--- |
| Addition Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{a}+\boldsymbol{c}=\boldsymbol{b}+\boldsymbol{c}$ |
| Subtraction Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{a}-\boldsymbol{c}=\boldsymbol{b}-\boldsymbol{c}$ |
| Multiplication <br> Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{a} \boldsymbol{c}=\boldsymbol{b} \boldsymbol{c}$ |
| Division Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{a} / \boldsymbol{c}=\boldsymbol{b} / \boldsymbol{c}$ |
| Reflexive Property | For any real \#, $\boldsymbol{a}=\boldsymbol{a}$ |
| Symmetric Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{b}=\boldsymbol{a}$ |
| Transitive Property | If $\boldsymbol{a}=\boldsymbol{b}$ and $\boldsymbol{b}=\boldsymbol{c}$, then $\boldsymbol{a}=\boldsymbol{c}$ |
| Substitution <br> Property | If $\boldsymbol{a}=\boldsymbol{b}$, then $\boldsymbol{b}$ can be substituted in for $\boldsymbol{a}$ |

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