Optical Math 101

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Why is it important to learn optical equations and formulas?

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Transposing Prescriptions

Combine sphere with cylinder

Change sign of cylinder

Change axis by 90

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Spherical Equivalent

Combine sphere and half of the cylinder

Drop axis

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Reading only Rx

Combine add power with sphere

Cylinder and axis remain the same

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Create a mid-range only Rx

Divide the add power in half

Combine with sphere

Cylinder and axis remain the same

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Prentice’s Rule

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Calculating Frame PD

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Calculating Decentration

Binocular PD

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Monocular PD

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Vertical Decentration

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Minimum blank size

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