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Horizontal Prism
solution:
$P=(h c m)(D @ 180$ th meridian)
$P=(.6 \mathrm{~cm})(0 . D .-3.75 \&$ O.S. -3.50$)$
$P=(.6 / 2)(0 . D .-3.75 \&$ O.S. -3.50)
O.D. Prism $=(.3)(-3.75) \& 0 . S$. Prism $=(.3)(-3.50)$
O.D. Prism $=1.125 \mathrm{D} \&$ O.S. Prism $=1.05 \mathrm{D}$
Total Prism $=1.125 \mathrm{D}+1.05 \mathrm{D}$
Total Prism $=2.18 \mathrm{D}$ (almost 2.25 prism diopters)
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| Solution |  |
| :---: | :---: |
|  |  |
| $\mathrm{P}=(0 \mathrm{D} 31-33=2 \mathrm{~mm}$ \& OS $35-33=2 \mathrm{~mm})(0.0 .0 .+2.50$ \& 0.S. +3.00$)$ |  |
| $\mathrm{P}=(0 \mathrm{D} .2 \mathrm{~cm} \& ~ \mathrm{OS} .2 \mathrm{~cm})(0 \mathrm{D}+2.50$ \& 0.5. +3.00$)$ |  |
| O.D. Prism $=(.2 \mathrm{~cm}$ toon narrow) ( +2.50 ) \& 0.S. Prism $=(.2 \mathrm{~cm}$ too wide) ( +3.00$)$ |  |
| O.D. Prism $=0.50$ D. B..I \& O.S. Prism $=0.60$ D. B.O. |  |
| Total Prism $=$ Prism OD + Prism OS |  |
| Total Prism $=0.50$ D B. I. +0.60 D. B. 0. |  |
| Total Prism $=0.10 \mathrm{D}$ B.O. (base out because the stronger prism is Base Out) |  |
| (p) |  |

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