

Mangin Mirror

- Be careful with the sign conventions.
- The air glass interface is used twice.

Ray from infinity

	0	1	2	3	I
r		-100	-150	-100	
n	1.0	1.5	1.5	1.0	
t	∞	10	-10	?	
$-\phi$.005	-.02	.005	
t/n	∞	6.66	6.66	84.45	
ω	1	1	1.0333	.929	0
ω'	0	.005	-.01567	-.0110	

$$\omega' = -.0110$$

$$\frac{\omega' F'}{n'} = \frac{BFD}{n'} = 84.45$$

$$\phi = -\omega' / y_1 = .0110$$

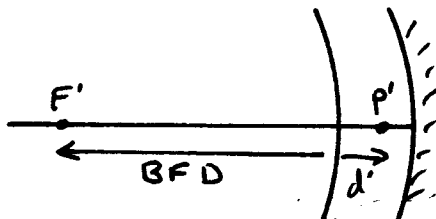
$$f_e = 1/\phi = 90.91$$

$$BFD = -84.45$$

$$f'_R = n'/\phi = n' f_e = -90.91$$

$$d' = BFD - f'_R = -84.45 + 90.91$$

$$d' = 6.46$$



b) Since the system is "symmetric" P and F are located at the same places.