

PhyzJob: Geometric Optics

NUMBER CRUNCHING



INSTRUCTIONS: Complete the table using the basic mirror/lens equations.

<i>type</i>	<i>r (cm)</i>	<i>f (cm)</i>	<i>o (cm)</i>	<i>i (cm)</i>	<i>h_o (cm)</i>	<i>h_i (cm)</i>	<i>m</i>	<i>char.</i>
		+20	+10		+3			
			+30	+15		-12		
	-60		+45			+4		
			+30		+12	-8		
			+8			+24	+2	
				-10		+2	+0.25	
				-5	+2	+10		
	+90		+15		+10			

<i>type</i>	<i>r (cm)</i>	<i>f (cm)</i>	<i>o (cm)</i>	<i>i (cm)</i>	<i>h_o (cm)</i>	<i>h_i (cm)</i>	<i>m</i>	<i>char.</i>
convex	+40	+20	+10	-20	+3		+2	UVN
convex	+20	+10	+30	+15	+45	-12	-0.2	RVR
diverg	-60	-30	+45	-18	+10	+4	+0.4	UVN
convex	+24	+12	+30	+20	+12	-8	-0.67	RVR
convex	+32	+16	+8	-16	+12	+24	+2	UVN
diverg	-22	-11	+40	-10	+8		+0.25	UVN
convex	+22	+11	+1	-2	+2	+10	+2	UVN
convex	+42	+21	+12	-23	+10	+12	+1.2	UVN