

Table 5 Sign Conventions for Mirrors

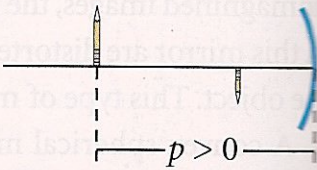
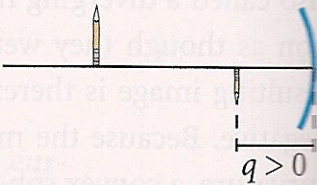
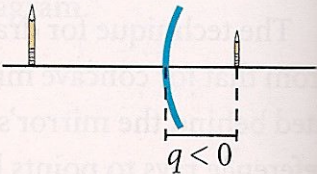
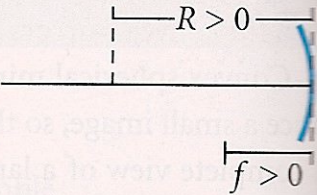
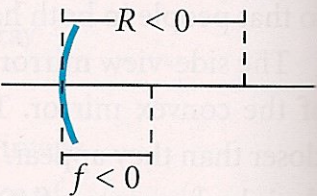
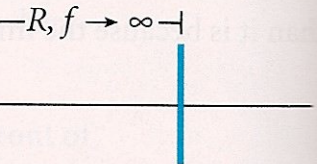
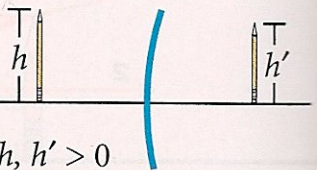
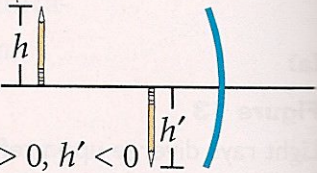
Symbol	Situation	Sign	
p	object is in front of the mirror (real object)	+	
q	image is in front of the mirror (real image)	+	
q	image is behind the mirror (virtual image)	-	
R, f	center of curvature is in front of the mirror (concave spherical mirror)	+	
R, f	center of curvature is behind the mirror (convex spherical mirror)	-	
R, f	mirror has no curvature (flat mirror)	∞	
h'	image is above the principal axis	+	
h'	image is below the principal axis	-	

Table 4

Sign Conventions for Lenses

	+	-
p	real object in front of the lens	real object in back of the lens
q	virtual image in back of the lens	virtual image in front of the lens
f	converging lens	diverging lens