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Work each of the followin	na problems.	SHOW ALL	WORK.

1.	An cm.	object is 6.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is 3.0
		a. Use a ray diagram show the location of the image. Is the image real or virtual, inverted or right-side-up, larger or smaller than the object?
		b. Calculate the location of the image.
		c. Determine the magnification of the image.
2	Λn	object is 3.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is 3.0
۷.	cm.	
		a. Use a ray diagram show the location of the image. Is the image real or virtual, inverted or right-side-up, larger or smaller than the object?



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Work each of the foll	lowing problems.	SHOW ALL	. WORK.

An object is 3.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is 3.0 cm.				
b. Calculate the location of the image.				
c. Determine the magnification of the image.				
a. Use a ray diagram show the location of the image. Is the image real or virtual, inverted or right-side-up larger or smaller than the object?				
b. Calculate the location of the image.				
c. Determine the magnification of the image.				
cm				



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Work each of the	followina problems.	SHOW ALL WORK.

4.	A real image is 5.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is
	3.0 cm.
	a. Calculate the location of the object.
	b. Determine the magnification of the image.
	c. Use a ray diagram show the location of the image. Is the image inverted or right-side-up, larger or smaller than the object?
	Smaller than the object:
5.	An object is 4.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is 3.0 cm. The object height is 2.5 cm.
	a. Use a ray diagram show the location of the image. Is the image real or virtual, inverted or right-side-up larger or smaller than the object?



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Work each of the	followina problems.	SHOW ALL WORK.

W	ork each of the following problems. SHOW ALL WORK.
5.	An object is 4.0 cm from a convex lens, with its base on the principal axis. The focal point of the lens is 3.0 cm. The object height is 2.5 cm.
	b. Calculate the location of the image.
	c. Determine the magnification of the image.
	d. What is the height of the image?