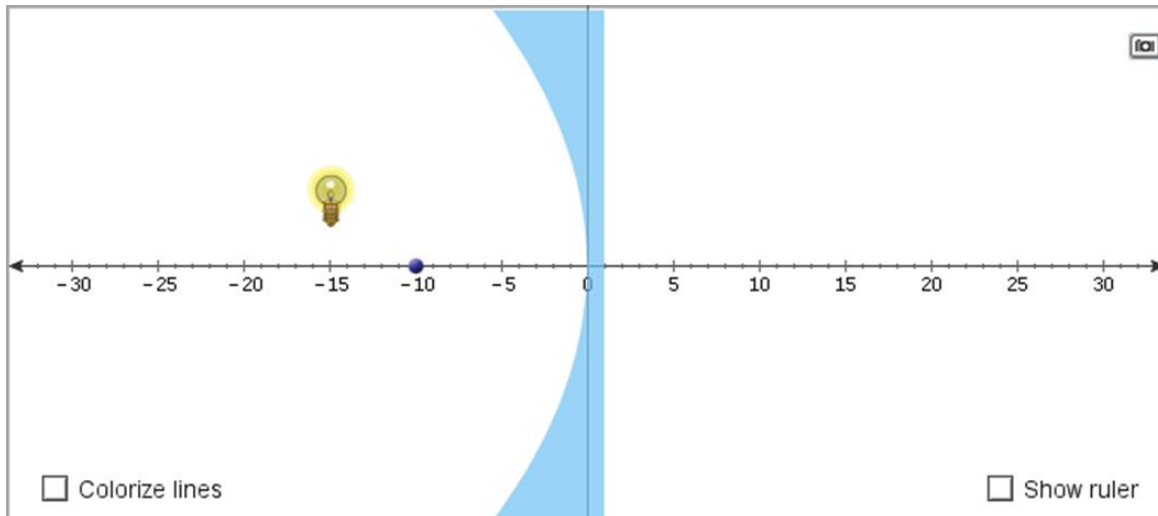


Name: _____ Date: _____

Practice Test: Lenses and Mirrors

1. The image below shows an object placed to the left of a mirror with a focal length of 10. Draw the three principal light rays for this object and mirror.



2. What does it mean for an image to be virtual? _____

3. Is a concave lens diverging or converging? Explain your answer. _____

4. An object is placed 20 cm from a plane mirror. How far away is the image? _____
5. A convex mirror always produces images that are...
- A) smaller than the object
 - B) upright
 - C) virtual
 - D) all of the above

6. An object is placed 6 cm from a mirror, and an image forms on the same side of the mirror, 18 cm away from the mirror.

A. Is the mirror converging or diverging? Explain. _____

B. Is the image upright or inverted? Explain. _____

C. Is the mirror magnifying the object or reducing its apparent size? Explain.

D. What is the focal length of the mirror? _____

Show your work below

7. An object is put near a lens with a focal length of 12 cm. An image forms 4 cm from the lens.

A. Is the lens converging or diverging? Explain. _____

B. Is the image virtual or real? Explain. _____

C. How far is the object from the lens? _____

Show your work below.

