Ray Diagrams
Do the drawings on graph paper

1. For a convex lens with a focal length of 4 cm, make a drawing for a 2 cm tall object that is ____ cm from the mirror. For each, note d_i, h_i, real/virtual, upright/inverted.
    a. 16
    b. 12
    c. 8
    d. 4
    e. 2

2. For a concave lens with a focal length of 4 cm, make a drawing for a 2 cm tall object that is ____ cm to the left of the mirror. For each, note d_i, h_i, real/virtual, upright/inverted.
    a. 16
    b. 12
    c. 8
    d. 4
    e. 2

3. For each of the above problems, show the mathematical solution for d_i, h_i, real/virtual and upright/inverted.

4. For a concave mirror with a focal length of 4 cm, make a drawing for a 2 cm tall object that is ____ cm from the mirror. For each, note d_i, h_i, real/virtual, upright/inverted.
    a. 16
    b. 12
    c. 8
    d. 4
    e. 2

5. For a convex mirror with a focal length of 4 cm, make a drawing for a 2 cm tall object that is ____ cm to the left of the mirror. For each, note d_i, h_i, real/virtual, upright/inverted.
    a. 16
    b. 12
    c. 8
    d. 4
    e. 2

6. For each of the above problems, show the mathematical solution for d_i, h_i, real/virtual and upright/inverted.