Calculation of Depth

1) Underwater depth

depth

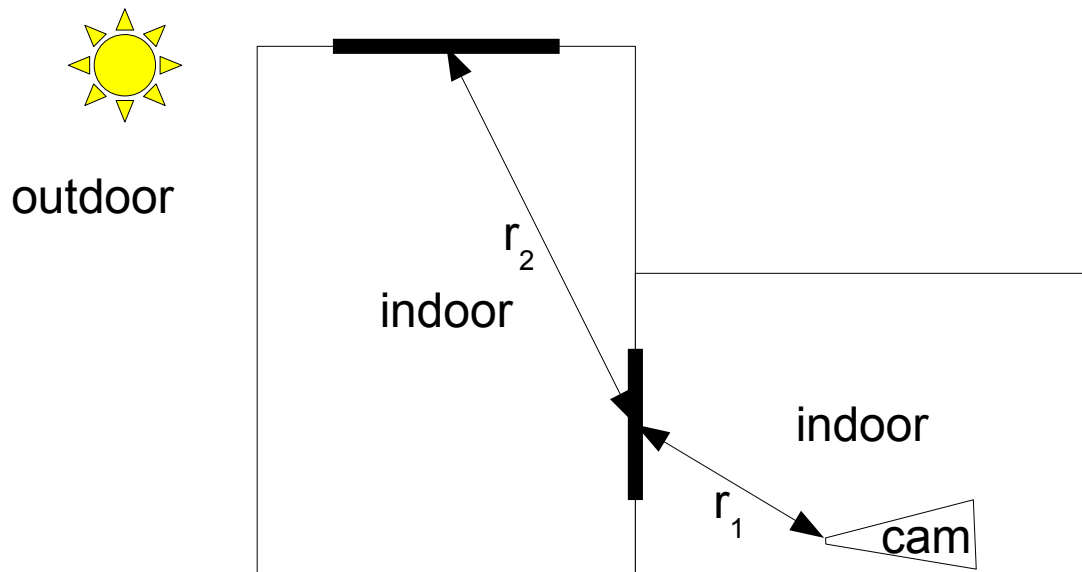Underwater cave

cam
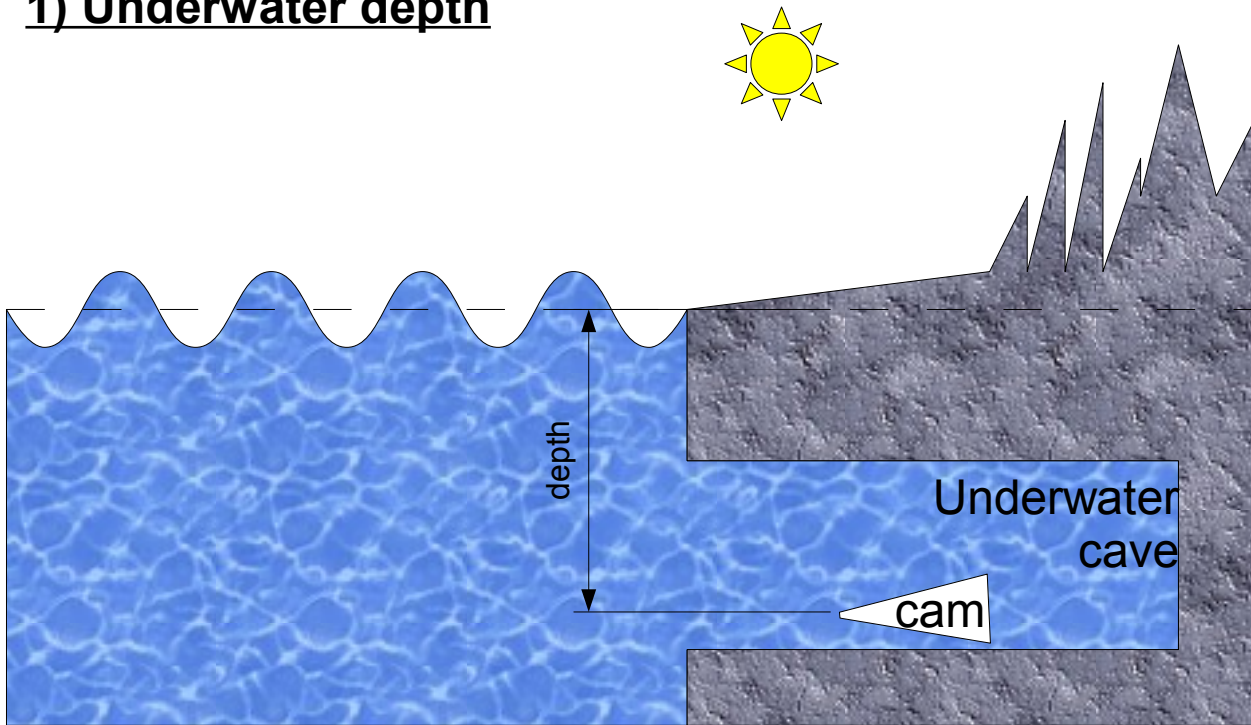
2) Indoor depth

a) One room with one portal

outdoor

indoor

r_1

cam
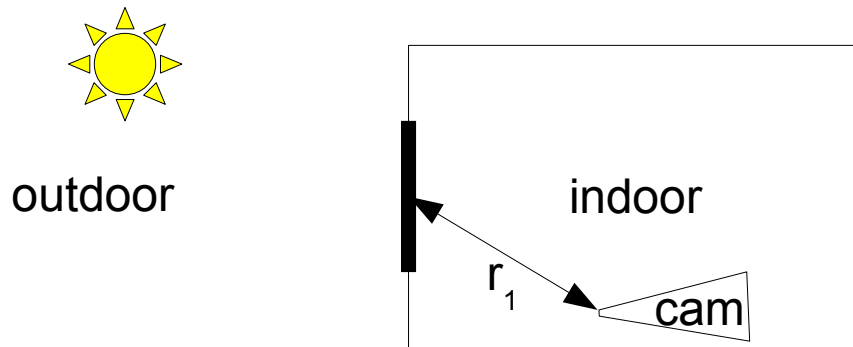
$$depth = r_1$$

b) Series of rooms

outdoor

r_2

indoor

indoor
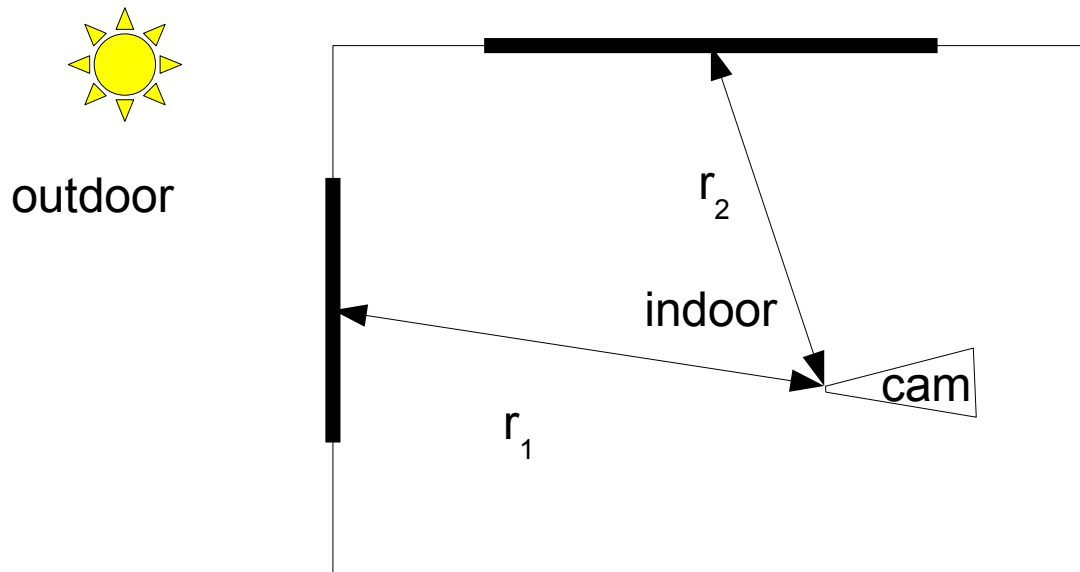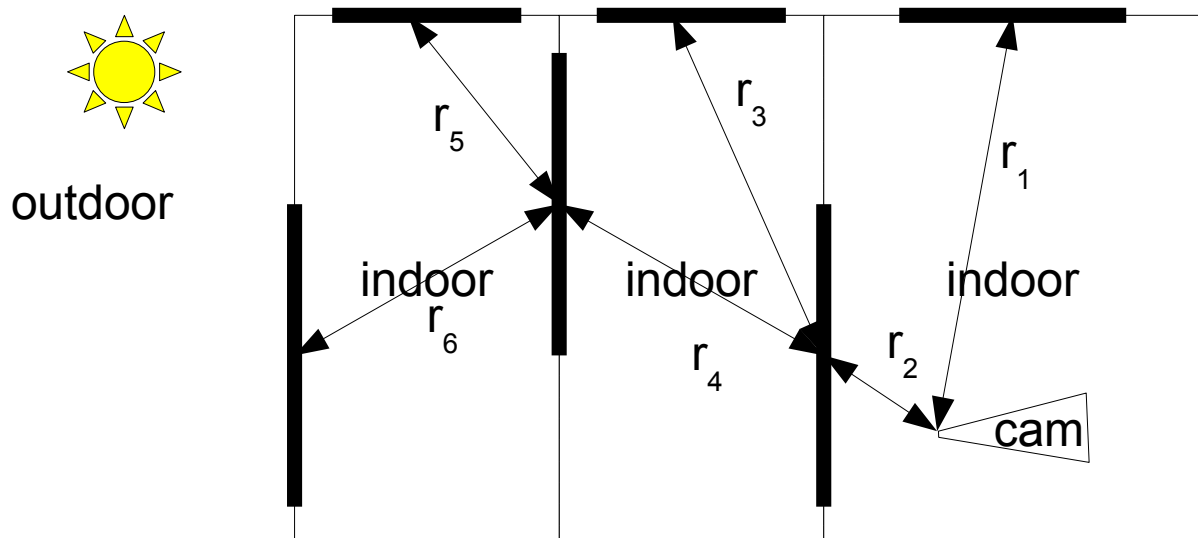
r_1

cam

$$depth = r_1 + r_2$$

c) One room with several portals

$$depth = min(r_1, r_2)$$

d) Complex case

$$depth = min(r_1, r_2 + r_3, r_2 + r_4 + r_5, r_2 + r_4 + r_6)$$