**Physics 30 – Lesson 5**

## Introduction to Light

/ 65

**Practice problems**



1)

35 cm

x

30 cm

10 cm

2)

camera

1.90 m

x

0.25 m

7.5 m



3)



4)



b. Calculate the time for the light to go to and return from the reflecting mirror –

1/8th T

a. Calculate the time for one revolution – T



**Assignment**

1)



/3

2)



/4

3) 10 years after it exploded

/1

a)



4)

/7

b) 4.3 years



c)



d)

5)



/3



6)

/3

Jupiter

7)

/4



0.10 m

0.20 m

3.5 m

8)

/3



9)



/2

10)

Similar Triangles

5.0cm



25 cm

100 cm



/3

2.0 cm



5.0 cm

20 cm



11)

/6



12)



1.0

10 m

x

15 m

15 + x

/4

13)



/4

14)



/6



15)



/6

16)



/6