

Quiz 8

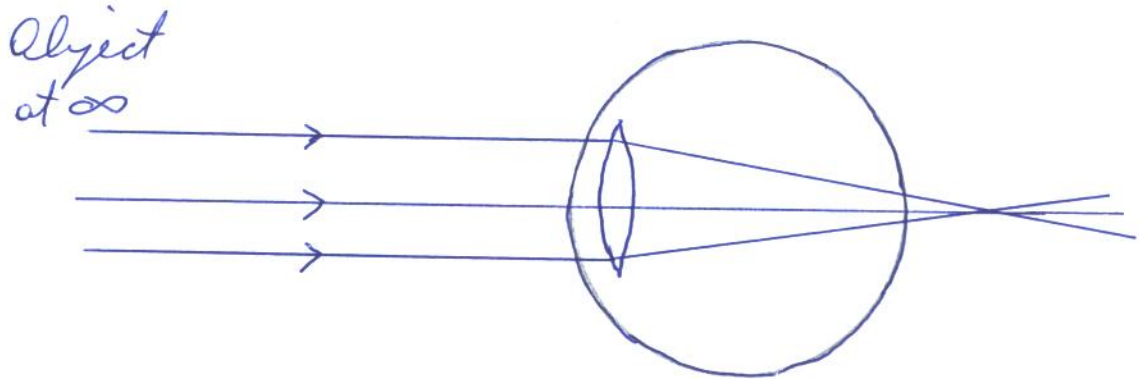
Name: _____ Student Number: _____

1. (6 marks) Complete the following table with the approximate wavelengths and frequencies of the photons.

Photon	Wavelength	Frequency
Red light	700 nm	4×10^{14} Hz
Yellow light	600 nm	5×10^{14} Hz
Blue light	500 nm	6×10^{14} Hz
X ray	0.1 nm	3×10^{18} Hz
Infrared light	1000 nm	3×10^{14} Hz
Ultraviolet light	300 nm	1×10^{15} Hz

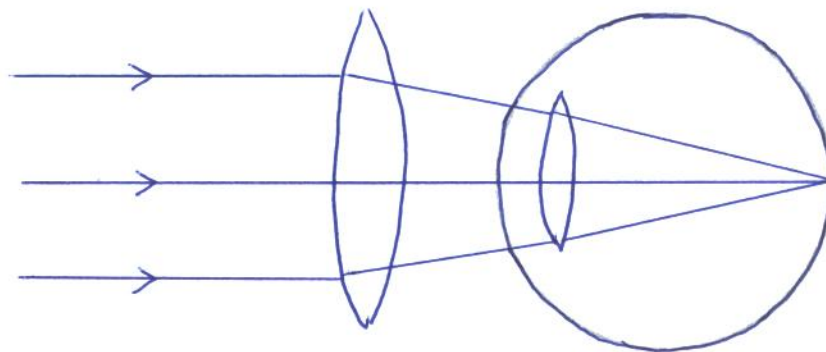
2. a) (2 marks) What is farsightedness? Explain using diagrams of light entering the eye.

Eye focuses objects behind retina.



b) (2 marks) How can glasses correct this problem.

Add convex lens as shown below.



Total = 10 marks