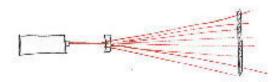


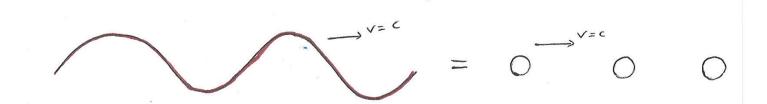
According to classical electricity and magnetism, what will happen if we illuminate a metal wire with light from a laser pointer?

- A) Nothing
- B) A uniform current will flow in the wire
- C) Some electrons in the wire will oscillate up and down
- D) Some electrons will fly out of the wire

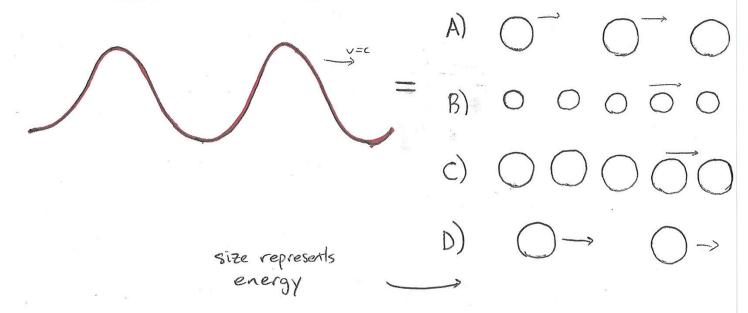


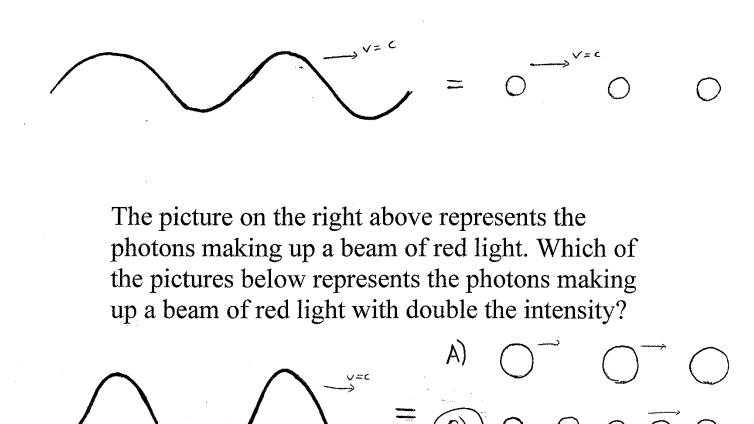
According to classical electricity and magnetism, what will happen if we illuminate a metal wire with light from a laser pointer?

- A) Nothing
- B) A uniform current will flow in the wire
- C) Some electrons in the wire will oscillate up and down
- D) Some electrons will fly out of the wire



The picture on the right above represents the photons making up a beam of red light. Which of the pictures below represents the photons making up a beam of red light with double the intensity?

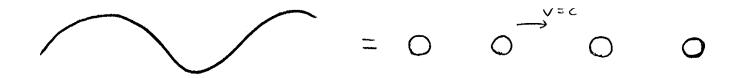




B) Same freq = D same energy/photo double intensity = D double photons/sec C) O O O O O size represents energy The picture on the right above represents the photons making up a beam of red light. Which of the pictures below represents the photons making up a beam of blue light with the same intensity?

V=C

A) \bigcirc \bigcirc \cap B) 5:20 represents D)o 0 0 0 Q 0 0 20



The picture on the right above represents the photons making up a beam of red light. Which of the pictures below represents the photons making up a beam of blue light with the same intensity?

