

Transformer problem:

A portable x-ray unit plugs into a wall socket (120 volts). It requires 100 kVs to operate the X-ray tube. If the transformer's primary has 50 winds in it and draws 10.0 amps when in use:

a.) Is this a step-up or step-down transformer?

b.) What is the number of winds in the secondary?

c.) Determine the current output of the secondary.