25 Monochromatic light of wavelength 250 nm is incident on a clean potassium surface and a clean zinc surface. The work function of potassium is 2.24 eV, and the work function of zinc is 4.33 eV. What is the ratio of

$$\frac{\text{maximum velocity of electrons emitted from potassium surface}}{\text{maximum velocity of electrons emitted from zinc surface}}$$

for the electrons emitted from these surfaces?

A 0.50 **B** 1.9 **C** 2.1 **D** 4.3