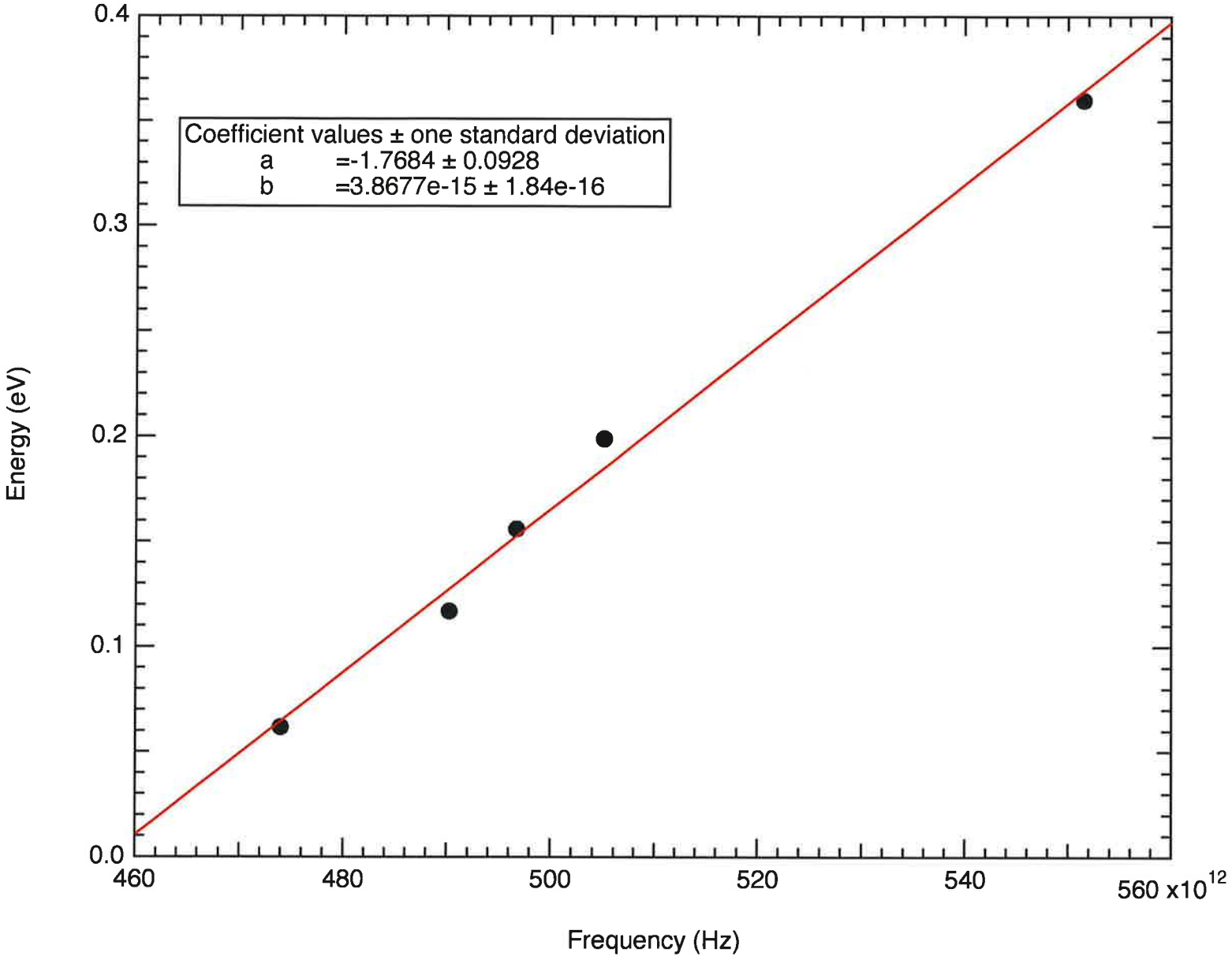

Ex 3.30

$E = a + bf$

1 1 1

energy (eV) Φ $\frac{h}{e}$?

a) $h = be = (3.8677e-15)(1.6e-19)$

$\boxed{h = 6.188e-34}$

$h_{acc} = 6.626e-34$

So the experimental result is about $\boxed{7\% \text{ low.}}$

b) the work fiction is $\boxed{1.768\,eV}$

from table 3-1, this metal is probably $\boxed{Cs}$