$V_{Z4Q} = 4\left(K\frac{Q}{r}\right)$

$= 4 \cdot \frac{9 \cdot 10^9 \, N \cdot m^2}{C^2} \Big| \frac{32\, C}{(5m)}$ $\qquad \frac{N \cdot m}{C} = V$

$V_Z = 2.304 \cdot 10^{11} \, V$

$V_{satellite} = \frac{K \cdot Q_{sat}}{r_{sat}}$

$= \frac{9 \cdot 10^9 \, N \cdot m^2}{C^2} \Big| \frac{-128\, C}{15\, m}$

$V_{satellite} = -7.68 \cdot 10^{10} \, V$

Now the problem is about the charge on the contact point (Z) and the satellite charge.

$PE_g = mgh$

$= 100kg \cdot 9.8 \, m/s^2 \cdot 10000m$

$PE_g = 9800000 \, J$ needed to get satellite into orbit..

Is the potential difference between the satellite and the contact point equal to or greater than 9800000 J ?