Post | ab 6.

1 lok 
$$\frac{1}{5}$$
 | Vref =  $\frac{\chi_{+10}k}{l_0k+l_0k+l_0k}$  |  $\frac{\chi_{+10}k}{l_0k+l_0k}$  |  $\frac{\chi_{+10}k}{l_0k}$  |  $\frac{\chi_{+10}k$ 

Zin= Ri+ R2 = 22 ka+ 680 ka = 702 ka

Vref. 1006 = 15v x 702kp +5,25kp = 7.44v with lood adjust < 7.5 v.

 $Reg = \frac{R_2 \cdot R_f}{R_2 + R_f} = \frac{680 \, \text{k} \, \Omega \cdot 100 \, \text{k} \, \Omega}{680 \, \text{k} \, \Omega + 100 \, \text{k} \, \Omega} = 87.2 \, \text{k} \, \Omega \implies \text{Reg} = 87.2 \, \text{k} \, \Omega$ 

 $V_{\text{out}} = -\frac{R_2'}{R_1} \cdot o_1 | \sin(\omega t) = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_1 | \sin(\omega t) | \approx -0.396 \sin(\omega t) | V_{\text{out}} = -\frac{R_2'}{R_1} \cdot o_1 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_1 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_1 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_2 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_3 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_4 | \sin(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aak\Omega} \cdot o_5 | \cos(\omega t) | = -\frac{8\sqrt{2k\Omega}}{aa$ 

 $V_{\text{ref. load}} = 15 \text{ V} \times \frac{(10 \text{ k}\Omega + 1 \text{ k}\Omega) // 702 \text{ k}\Omega}{10 \text{ k}\Omega + (10 \text{ k}\Omega + 1 \text{ k}\Omega) // 702 \text{ k}\Omega} = 7.79 \text{ V}.$ 

Rz = 680 ks. For finger resistance Rf = 100 ks.

⇒ Vout = - 0.396 Sin (wt) V

After touching Rz. Rz = 87.2 kp.

2 Zont = 10.5 km = 5.25 km