(A)
$$V(x,R) = \frac{22.7}{\Gamma(\frac{x}{2}+1)}$$

$$\log(V(x,R)) = \log((-\sqrt{\pi}R)^{x}) - \log(\Gamma(\frac{x}{2}+1))$$

$$\frac{d}{dx}\left(\log\left(V(x,R)\right)\right) = \log\left(\sqrt{\pi}R\right) - \left(\frac{1}{\Gamma(\frac{x}{2}+1)}, \frac{\Gamma'(\frac{x}{2}+1)}{2}\right)$$

(B)
$$0 = \log(\sqrt{\pi}R) - \frac{1}{2} \psi(\frac{x}{2}+1) \psi - \frac{\Gamma'(z)}{\Gamma(z)}$$

$$\log(-\pi R) = \frac{1}{2} \psi \left(\frac{x}{2} + 1\right)$$

$$2 \cdot \left(\frac{1}{2} \log(\Pi) + \log(R)\right) = \psi\left(\frac{x}{2} + \frac{1}{2}\right)$$