3. 
$$P(y|b) = \frac{P(b|y)}{P(b)}$$
 $P(b,y) = \exp(-E(y,b))$ 
 $E(y,b) = -a^{T}y - b^{T}b$ 
 $-y^{T}y^{T}b$ 
 $P(y|b) = \frac{1}{2}$ 

$$\frac{1}{|\nabla v|} = \frac{1}{|\nabla v|} =$$

$$P = \frac{1}{2!} exp \left[ \underbrace{a^{7}v + v^{7}w h} \right]$$

$$= \frac{1}{2!} exp \left[ \underbrace{x^{9}v + v^{9}v + v^{9}v$$