$$\delta$$
)  $y(x, t) = A sin [5x - \omega t]$ 

$$2) b = \frac{2\pi}{0.28}$$

$$2) w = \frac{2\pi}{0.04}$$

$$2 = \frac{2\pi}{5}$$

$$4 = \frac{2\pi}{5}$$

$$4 = \frac{2\pi}{5}$$

$$5 = \frac{2\pi}{5.28}$$

$$6 = \frac{2\pi}{5.28}$$

$$7 = \frac{2\pi}{5.2$$

3) a)

$$y(x,t) = A \cos \left(\frac{2\pi}{2}(x-vt)\right)$$

$$V(x,t) = \int_{t}^{\infty} g(x,t)$$

$$V(x,t) = \frac{2\pi}{\pi} Av \sin \left[ \frac{3\pi}{2} (x-vt) \right]$$

$$\begin{cases} V_{\text{max}} = \frac{2\pi}{2} AV \sin \left[ \frac{2\pi}{2} \left( X - U f \right) \right] \end{cases}$$

5) 
$$V_{i} = 70^{-10}/5$$

$$f' = 352 H_{2}$$
a)  $f' = f \frac{v \pm v_{i}}{v \div v_{i}}$ 
b)  $f' = 352 H_{2} \left(\frac{340 - 18}{740 + 30}\right)$ 

$$V_{i} = 18^{-13}$$

$$f' = 352 H_{2} \left(\frac{340 + 18}{740 - 30}\right)$$

$$f' = 307 H_{2}$$

b) 
$$f' = \left(\frac{V}{V - V_c}\right) \left(\frac{V + V_c}{V}\right) / 235$$

$$\frac{5}{344-2.8} = \frac{344+20}{344-20} = \frac{744+2.8}{344-20} = \frac{7275}{344-20}$$