37) a) -10 m/s. b) -20 m/s c) 2 39) V2= (+2-7++10) O=+2-7++10 a) 55,25 b) a(5)= 3m152 $a(2)=(-3m/5^2)$ 0= (+-5)(4-2) a(+)=2+-7 42) a) 15 0= 2 s;n(x4) a(+)= 2 cos(x+) b) -2m/s2 * nt= 12 nt=0 (t=) t=0 47) a) yes because it condently increases by 23 m/s 6) 34.7835 * v(+)= 2.3+ c) No W 8000 W 80=2.34 -= 34.78 x(+)= 1.15+2 x (34.783)=1.15(34.783)2 = 1391,336 m= 0.86 m.les. 2=2.58 miles