Sunday, February 22, 2015 1:15 PM

43) a) 2.80sec b) 7.18ft

(44) a) no.. 5.4ft Short b) no... too high

(45) a) yes! b) by x 1.59ft

c) in your words... (1) no! about.9ft Short

(50) a) 506.25ft b) 650.82ft c) 775.82ft d) 876.85ft

(43) a) 400 = (150 cas18) t

t= 2.80sec b) $y = -16(2.80)^2 + (150 \sin 18)(2.80) + 3$

y=7.18 ft

c) an outfielder can jump or reach a height of 7.18. If the ball was hit at 20°, it would have hit the wall, 1974 - an outfielder couldn't jump that high

 $X = (120\cos 30 + 5)t$ $Y = -16t^2 + (120\sin 30)t + 4$

a) 350 = (120cos 30 +5)t t=3.21 y=31.59ft YES!!

b) by ≈ 1.59ft

50) X=(180cos0)t y=-16t2 + (180sin0)t

a) $0 = -16t^2 + (180 \sin 15)t$ t=2.811

y=506.25 c)775.82ft b)650.82ft d)876.85ft

 $0 = 1.30^{\circ} - 1.30^{\circ} = \frac{y}{120}$ $1 = \frac{1}{120}$ $1 = \frac{1}{120}$

 $X = (120 \cos 30) t$ $y = -16t^2 + (12051n30)t + 4$

t = 3.37 sec $y = -16(3.37)^2 + (20\sin 30)(3.37) + 4$ y = 24.59 fta) $350 = (120\cos 30) t$

No...5.4ft Short

b) No... can't be caught (too high on the Wall)

 $X = (30\cos 70)t$ $y = -16t^2 + (30\sin 70)t + 3$

 $0 = -16t^2 + (30\sin 70)t + 3$ t=1.86 sec

X = (3000570)(1.86)X=19.11 ft NOI about .9ft