dynamics explanation

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1 question b

y(t)=$y_O + V_{y_0}t + 0.5at^2$ (1)

a=-g(2)

$V_{y_O} = 0$ (3)

y(t)=-0.5 $\times 4 \times 6^2$ (4)

y(t)=-72m(5) That means that the ball traveled 72m downwards which means that the height of the spaceship is 72m