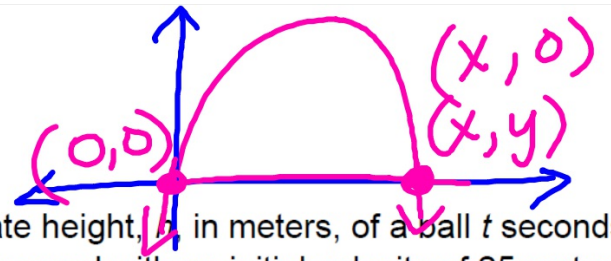
3.16.16

$h = -4.9t^2 + 25t$



above expresses the approximate height, h, in meters, of a ball t seconds
ched vertically upward from the ground with an initial velocity of 25 meters
After approximately how many seconds will the ball hit the ground?

A) 3.5
B) 4.0
C) 4.5
D) 5.0

$0 = -4.9t^2 + 25t$

$0 = t(-4.9t + 25)$ $t \neq 0$

$-4.9t + 25 = 0$
$-25 \quad -25$
$-4.9t = -25$

the solutions to the equation $2x^2 - 72 = 0$?

$+72 \quad +72$

$\frac{2x^2}{2} = \frac{72}{2}$

$\sqrt{x^2} = \sqrt{36}$ $x = \pm 6$

A) $-\sqrt{72}$ and $\sqrt{72}$

B) $-\frac{\sqrt{72}}{2}$ and $\frac{\sqrt{72}}{2}$

C) –36 and 36

D) –6 and 6