

2/22 Algebra - Downing
7.1 - 7.3 Reflections

$$7.1 \rightarrow -16t^2 + V_0t + S_0 \rightarrow \text{height of a falling object}$$

\uparrow gravity \uparrow initial velocity \uparrow initial height
 $t = \text{time in seconds}$

Go over HW problems

Ex) Write a polynomial with this info: $V_0 = -45 \text{ ft/sec}$, $S_0 = 200 \text{ ft}$.

a) $-16t^2 - 45t + 200$

b) $-16(1)^2 - 45(1) + 200 = 139 \text{ feet}$ (plug in 1 sec)

Ex) $V_0 = 16 \text{ ft/sec}$, $S_0 = 3 \text{ ft}$.

a) $-16t^2 + 16t + 3$

b) $-16(1)^2 + 16(1) + 3 = 3 \text{ feet}$

Ex) $-16t^2 + 98$ and $-16t^2 + 46t + 6$ find the distance between

$$(-16t^2 + 98) - (-16t^2 + 46t + 6)$$

$$= -16t^2 + 98 + 16t^2 - 46t - 6$$

$$\boxed{-46t + 92}$$

constant term = 92

they started = 92 feet apart

coefficient = -46

become = 46 ft/sec closer.



Find Area = lw or $b \cdot h$

$$(x+5)(2x-9) = 2x^2 - 9x + 10x - 45$$

$$\boxed{2x^2 + x - 45}$$

Ex) Find Perimeter $x+5 + 2x-9 + x+5 + 2x-9 = \boxed{6x-8}$
or $2(x+5) + 2(2x-9)$

Check HW Quizzes

PC