A rookie baseball player has an offer to sign a contract for \$200,000 per year for 4 years. The player can add years to the deal, but for each additional year, he will make \$10,000 less. How many years should the player structure in his contract to maximize his salary? Calculate his maximum total salary.	# YEARS # PER YEAR TOTAL &
Diagram: Equation A: Equation A:	4 4 4200,000 - 4800,000
(given info) (new version)	5 \$ 190,000 \$ 19950,000
Equation B: T = 80,000 + 160,000 x 2	6 4 80,000 \$1,080,000
$(\text{max/min}) \qquad (\text{new version})$ Equation B: $ = \text{kopoo} - \text{2opoo} \times = \text{O}$ (1st derivative)	(4+X) · (200,000-10,000) > FOIL
8=X 8=X 7=	(4+x) (200,000 - 10,000 x)
Number of Years: Total Salary: \$1,440,000	800,000 - 40,000x + 200,000x - 10,000 x2
# Per Year: 120,000	= 800,000 + 160,000 × - 10,000 × 2