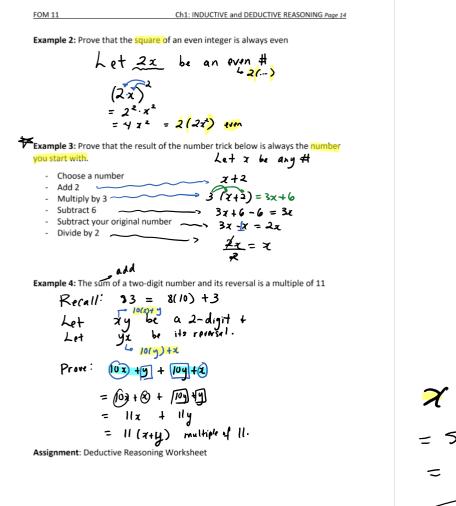
5 Projecting Conjectures: Deductive Reasoning, Part 2 (1.4) January 3, 2020 5:58 PM

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Day 5: Proving conjectures	: Deductive reasoning, Part 2 (1.4)
are using d <u>e duc tive</u>	and (e.g., for a number, even number, odd number, and algebra. $\chi = 2\chi + 2\chi$
If you add 1 to any even integer -This means that 2x 41 or 2 (any o odd. Consecutive numbers follow ea	mbination of variables and coefficients) will always be even. r you will get an odd number. combination of variables and coefficients) 41 will always be ich other in numerical order 3 are 4 numbers that come one after the other numerically. 2 <i>x</i> +2, 2 <i>x</i> +4, 2 <i>x</i> +6
Finishing a Proof: If proving an answer is	it should look like
Even Odd	<u>A</u> (any combination of variable terms) <u>A</u> (any combination of variable terms) <u>↓ </u>
Divisible by 3	3 (any combination of variable terms)
Divisible by 4	4 (any combination of variable terms)
etc.	etc.
an <mark>even numb</mark> er is alway <mark>s o</mark>	~(·~-)+
Let <u>2x+1</u> Let <u>2y</u>	be an odd number be an even number
) + (2y) *** + 2y + l



$$\begin{array}{r} \text{median} \\ \textbf{X + X + 1 + (x + 2) + x + 3 + x + 4} \\ = 5 x + 10 \\ = 5(x + 2) \\ \textbf{X + 3 + 1/ + x + 6} = 20 \\ = 3(4) \\ \textbf{X + 1 + 1/ + x + 1/$$