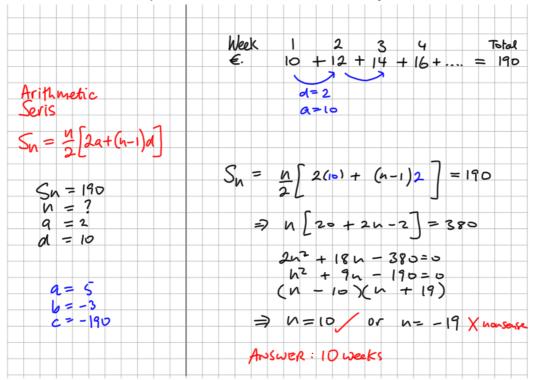
5. Anna saves money each week to buy a printer which costs €190. Her plan is to start with €10 and to put aside €2 more each week (i.e. €12, €14, etc.) until she has enough money to buy the printer.

At this rate, how many weeks will it take Anna to save for the printer?



- 6. Evaluate

6. Evaluate (i) 
$$\sum_{r=1}^{6} (3r+1)$$
 (ii)  $\sum_{r=0}^{5} (4r-1)$  (iii)  $\sum_{r=1}^{100} r$ 

$$T_{N} = 3n+1$$
 (i)  $T_{1} \Rightarrow r = 1 \Rightarrow T_{1} = 3(1)+1 = 4 = 4$ 

$$T_{2} \Rightarrow r = 2 \Rightarrow T_{2} = 3(2)+1 = 7$$

$$T_{3} \Rightarrow r = 3 \Rightarrow T_{3} = 3(3)+1 = 10$$

$$S_{1} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{2} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{3} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{4} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{5} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{6} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{7} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$

$$S_{8} = \frac{4}{2} \left[ 2(4) + (6-1)^{3} \right]$$