1. The $n$th term of a number sequence is given by $3 n-1$.

Is 110 a term of this number sequence?
Explain how you get your answer.
$\qquad$
2. The $n$th term of an arithmetic sequence is given by $3 n+2$.

Is 105 a term of this sequence?
Explain how you get your answer.
2.
3. The $n$th term of a number sequence is given by $7 n+1$.

Is 106 a term of this number sequence?
Explain how you get your answer.
$\qquad$
4. The $n$th term of a number sequence is given by $4 n-2$.

Is 112 a term of this number sequence?
Show how you get your answer.
4. ...............

Answers

1. yes because e.g. attempt to solve $3 n-1=110$, algebraically or trial and improvement and an argument e.g. shows $n=37$ gives 110
2. no because e.g. attempt to solve $3 n+2=105$, algebraically or trial and improvement and an argument e.g. shows $n=34$ gives 104 not 105
3. yes because e.g. attempt to solve $7 n+1=106$, algebraically or trial and improvement and an argument e.g. shows $n=15$ gives 106
4. no because e.g. attempt to solve $4 n-2=112$, algebraically or trial and improvement and an argument e.g. shows $n=28$ gives 110 not 112
