```
and (x 3 = True)
    (x 1 = True)
    (x^{6} = 1)
    (x 9 - x 10 >= 41)
    (x \ 5 = 1)
and (x 1 = True)
                         inductive?
    (x 6 = 1)
    (x^9 - x 10 >= 41)
                            YES
    (x 5 = 1)
and (x 6 = 1)
                         inductive?
    (x 9 - x 10 >= 41)
                             NO
    (x 5 = 1)
and (x 1 = True)
                         inductive?
    (x^9 - x 10 >= 41)
                            YES
    (x \ 5 = 1)
                         inductive?
and (x 1 = True)
    (x \ 5 = 1)
                             NO
and (x 1 = True)
                         inductive?
    (x 9 - x 10 >= 41)
                            YES
and (x 1 = True)
    (x 9 - x 10 >= 41)
```