

```
% library(win_menu) compiled into win_menu 0.00 sec, 33 clauses
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```

For help, use ?- help(Topic). or ?- apropos(Word).

```
1 ?- consult('crypto.pro').
```

```
% c:/Users/joshu/Documents/CSC366/Assignments/sets/comboSETS.pro compiled 0.00 sec, 38 clauses
% crypto.pro compiled 0.00 sec, 56 clauses
true.
```

```
2 ?- crypto(13,5,7,3,11,3,Solution).
```

```
Solution = ex(ex(7, +, 3), +, ex(11, -, ex(13, +, 5))) ;
Solution = ex(ex(7, +, 3), -, ex(ex(13, +, 5), -, 11)) ;
Solution = ex(11, -, ex(ex(13, +, 5), -, ex(7, +, 3))) ;
Solution = ex(11, +, ex(ex(7, +, 3), -, ex(13, +, 5))) ;
Solution = ex(ex(11, +, ex(7, +, 3)), -, ex(13, +, 5)) ;
Solution = ex(ex(7, *, 3), /, ex(ex(13, +, 5), -, 11)) ;
Solution = ex(ex(ex(13, +, 5), -, 11), -, ex(7, -, 3)) ;
Solution = ex(ex(ex(13, +, 5), -, ex(7, -, 3)), -, 11) ;
Solution = ex(ex(13, +, 5), -, ex(11, +, ex(7, -, 3))) ;
Solution = ex(ex(3, -, 7), -, ex(11, -, ex(13, +, 5))) ;
Solution = ex(ex(3, -, 7), +, ex(ex(13, +, 5), -, 11)) ;
Solution = ex(ex(ex(13, +, 5), +, ex(3, -, 7)), -, 11) ;
Solution = ex(ex(13, +, 5), -, ex(11, -, ex(3, -, 7))) ;
Solution = ex(ex(13, +, 5), +, ex(ex(3, -, 7), -, 11)) ;
```

Solution =  $\text{ex}(\text{ex}(3, +, \text{ex}(13, +, 5)), -, \text{ex}(7, +, 11))$  ;  
 Solution =  $\text{ex}(\text{ex}(3, +, \text{ex}(7, +, 11)), -, \text{ex}(13, +, 5))$  ;  
 Solution =  $\text{ex}(\text{ex}(3, *, \text{ex}(13, +, 5)), /, \text{ex}(7, +, 11))$  ;  
 Solution =  $\text{ex}(\text{ex}(3, *, \text{ex}(7, +, 11)), /, \text{ex}(13, +, 5))$  ;  
 Solution =  $\text{ex}(\text{ex}(7, +, 11), +, \text{ex}(3, -, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(\text{ex}(13, +, 5), +, \text{ex}(3, -, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(\text{ex}(7, +, 11), -, \text{ex}(\text{ex}(13, +, 5), -, 3))$  ;  
 Solution =  $\text{ex}(\text{ex}(13, +, 5), -, \text{ex}(\text{ex}(7, +, 11), -, 3))$  ;  
 Solution =  $\text{ex}(\text{ex}(7, +, 11), /, \text{ex}(\text{ex}(13, +, 5), /, 3))$  ;  
 Solution =  $\text{ex}(\text{ex}(13, +, 5), /, \text{ex}(\text{ex}(7, +, 11), /, 3))$  ;  
 Solution =  $\text{ex}(3, +, \text{ex}(\text{ex}(7, +, 11), -, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, +, \text{ex}(\text{ex}(13, +, 5), -, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(3, -, \text{ex}(\text{ex}(7, +, 11), -, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, -, \text{ex}(\text{ex}(13, +, 5), -, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(3, +, \text{ex}(\text{ex}(7, +, 11), -, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, +, \text{ex}(\text{ex}(13, +, 5), -, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(3, -, \text{ex}(\text{ex}(7, +, 11), -, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, -, \text{ex}(\text{ex}(13, +, 5), -, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(3, *, \text{ex}(\text{ex}(7, +, 11), /, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, *, \text{ex}(\text{ex}(13, +, 5), /, \text{ex}(7, +, 11)))$  ;  
 Solution =  $\text{ex}(3, /, \text{ex}(\text{ex}(7, +, 11), /, \text{ex}(13, +, 5)))$  ;  
 Solution =  $\text{ex}(3, /, \text{ex}(\text{ex}(13, +, 5), /, \text{ex}(7, +, 11)))$  .

Too many solutions to post all of them.