1. Write down all of the output generated by the following Python program, evaluating it by hand.

```
from __future__ import division
from pylab import *

s = 8
while s < 34 :
    print s
    if (s > 15) and (s < 22) :
        print "s =", s
        s = 2*s
    s = s+2
print s
```

2. Write down all of the output generated by the following Python program, evaluating it by hand.

```
from __future__ import division
from pylab import *

w = 2
while w < 47 :
    print w
    if (w > 27) and (w < 33) :
        w = 2*w
    else :
        print "w =", w
    w = w*2
print w
```

3. Write down all of the output generated by the following Python program, evaluating it by hand.

```
from __future__ import division
from pylab import *

p = 3
while p < 20 :
    print p
    if (p > 4) and (p < 12) :
        p = p+3
    else :
        print "p =", p
    p = 2+p
print p
```