1(a): In code.

1(b):

A \* B = [[18, 14], [62, 66]]

1(c):

16 length array strassen multiplication: 2795200 nanosecs

1(d):

64 length array strassen multiplication: 117742300 nanosecs

It is 42 times longer than part 1(c).

1(e):

16 length array multiplication with square matrix multiply:206400 nanoseconds

It is 13 times faster than 1(c).

1(f):

64 length array multiplication with square matrix multiply:4913700 nanoseconds

It is 23 times faster than 1(d).