book problems
section 2.3 1, 2, 3, 13, 17, 18, 23
section 2.4 2(a & c), 4, 6, 8, 12

Extra credit problem:

1. For positive integers $a$, $b$, we denote by $S(a, b)$
the set of all possible sums of the numbers $a$ and $b$,
with arbitrary multiplicities. For example,
$S(4, 7) = \{4, 7, 8, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, \ldots\}$
Assume that $a$, $b$ are two positive integers such
that $(a, b) = 1$. Let $c = ab - a - b$.

a. Prove that $c$ is not in the set $S(a, b)$. (1 point)
b. Prove that every integer larger than $c$
   belongs to $S(a, b)$. (2 points)
c. How does this relate to football? (0 points)