

### Problem 1.50

For the following five spreadsheet functions, (a) write the values of the engineering economy symbols  $P$ ,  $F$ ,  $A$ ,  $i$ , and  $n$ , using a ? for the symbol that is to be determined, and (b) state whether the displayed answer will have a positive sign, a negative sign, or it can't be determined from the entries.

$$(1) = \text{FV}(8\%, 10, 3000, 8000)$$

$$(2) = \text{PMT}(12\%, 20, -16000)$$

$$(3) = \text{PV}(9\%, 15, 1000, 600)$$

$$(4) = \text{NPER}(10\%, -290, 12000)$$

$$(5) = \text{FV}(5\%, 5, 500, -2000)$$