Special Problem 2-3.4

Consider vectors A, B, and C, where we know these facts:

1) All vectors are non-zero.

2) **B** = 2**A**

3) C and A are neither collinear nor anti-parallel

Find then, the resulting **numeric** value of the following expressions:



b) $(\mathbf{A} + \mathbf{B}) \times \mathbf{B}$

c)
$$\boldsymbol{C} \cdot (\boldsymbol{A} \times \boldsymbol{C})$$

d) $\mathbf{A} \cdot (\mathbf{B} \times \mathbf{C})$

Hint: Yes, you have enough information to find numeric answers! Remember, you must provide justification/analysis for each expression.