1. . Which of the following vectors best represents the vector A + B ?  (A)  (B)  (C)  (D)  (E) 

2. . Vector **A** has a magnitude of 5 in the leftward direction and **B** has a magnitude of 2 in the rightward direction. What is the value of 2***A – B***? (A) 12 in the leftward direction (B) 10 in the leftward direction (C) 8 in the leftward direction (D) 8 in the rightward direction (E) 12 in the rightward direction

3. . When the tail of vector ***A*** is set at the origin of the xy-axis, the tip of ***A*** reaches (3,6). When the tail of vector ***B*** is set at the origin of the xy-axis, the tip of ***B*** reaches (–1,5). If the tail of vector ***A*** *–* ***B*** were set at the origin of the xy-axis, what point would its tip touch? (A) (2,11) (B) (2,1) (C) (–2,7) (D) (4,1) (E) (4,11)

4. . **A** and **B** are vectors, and is the angle between them. What can you do to maximize ***A*** Â· ***B***? I. Maximize the magnitude of A II. Maximize the magnitude of B III. Set to 90Âº (A) None of the above (B) I only (C) III only (D) I and II only (E) I, II, and III

5. . Which of the following statements is NOT true about ***A*** *x* ***B*** ?  (A) It is a vector that points into the page (B) It has a magnitude that is less than or equal to 12 (C) It has no component in the plane of the page (D) The angle it makes with ***B*** is less than the angle it makes with ***A*** (E) It is the same as –***B*** x ***A***