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1.If u = (5,0,-3,7) = (2,1,-1,-1), what is the value of ||proj_au|| (a)6/7 (b)6/\sqrt{7} (c)20/7 (d)20/\sqrt{7} 2. if ||v||=2 and ||w||=3, then what is the largest possible value for ||v-w|| (a)1 (b)2 (c)5 (d)6 3. which of the following pair of vectors is orthogonal (a)u=(0,0,-1), v=(1,1,1) (b)u=(2,3), v=(5,-7) (c)u=(6,1,4), v=(2,0,-3) (d)u=(1,-5,4), v=(-1,5,-4) 4. the angle between u=(2,-1,-1) and v=(3,0,2) is (a)zero degree (b)orthogonal (c)obtuse (d)acute
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5. which one of the following does not make sense mathematically for the 3 vectors u, v, w

(a)u • (v • w) (b)u • (v+w) (c)(u • v)-|u| (d)(u • v)-k