Due Date: 10/9/2022

Name: Recitation Instructor:	:			
Diedre rides her sled down an icy, frictionless hill. When she reaches level ground at the bottom, she is traveling at $v_i = 4.0 \mathrm{m/s}$ and has a glancing collision with her sledding buddy Brynn, who is initially at rest. Both sledders have the same mass, and they are using identical sleds. The collision causes Diedre's velocity vector to deflect by an angle of $\theta = 21^{\circ}$ , and the velocity vectors of both sledders are perpendicular to each other after the collision. What is Brynn's speed $v_2$ after the collision? For the limits check, investigate what happens to Brynn's speed $v_2$ as Diedre's initial speed $v_i \to 0$ .	Representation: Physics Concept(s): Initial Equation(s): Symbolic Answer: Units Check: Limits Check: Neatness: Total: Correct Answer:	0 0 0 0 0 0 -2	0.5 0.5 0.5	1

Representation

Physics Concept(s)	(Refer to the list posted on Carmen)	Initial Equations
(1)		
(2)		

ymbolic Answer:    Limits Check     Limits Check	Algebra Work (Symbols	only. Don't plug in any numbers yet.)
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