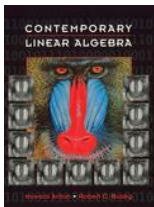


Chapter 1, Section 1 of *Contemporary Linear Algebra* by Anton and Busby



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1. If $\mathbf{u} = (3, 1, 2)$ and $\mathbf{v} = (1, -1, 5)$ then $2\mathbf{u} - \mathbf{v}$ is

- ▶ A $(6, 2, 4, -1, 1, -5)$
- ▶ B $(5, 3, -1)$
- ▶ C 7
- ▶ D $(1, 3, 3)$
- ▶ E $(-1, 1, -5, 6, 2, 4)$.

Next Question

2. For what values of s and t are the vectors $(3, 1, s, -2)$ and $(t, -3, 9, 6)$ parallel?

- ▶ A $s = 0, t = 0$
- ▶ B $s = 9, t = 3$
- ▶ C $s = 3, t = 3$
- ▶ D $s = -3, t = -9$
- ▶ E $s = -9, t = -3.$

Next Question

3. If $\mathbf{u} + \mathbf{v} + \mathbf{w} = (2, -1)$ and $\mathbf{u} = -\mathbf{v} = 2\mathbf{w}$ then \mathbf{u} is

- ▶ A $(-1/2, 1/4)$
- ▶ B $(2/3, -1/3)$
- ▶ C $(4, -2)$
- ▶ D $(0, 0)$
- ▶ E $(1, -1/2)$

Next Question

4. If $a(-3, 1, 1, 1) + b(1, 2, 2, -5) = (24, -1, -1, -22)$ then (a, b) is

- ▶ A $(24, -5)$
- ▶ B $(-8, 22/5)$
- ▶ C $(1, -1)$
- ▶ D $(-3, 1)$
- ▶ E $(-7, 3)$

No more questions



RIGHT!

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Wrong...try again

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