To solve the given problem, we'll follow these steps:

1. Find the coordinate vector of v with respect to the basis T.
2. Determine the transition matrix from the T to the S basis.
3. Find the coordinate vector of v with respect to the basis S using the transition matrix obtained in step 2.
4. State the relationship between the transition matrix Qt-s and Ps-+.

Let's start with step 1:

1. Find the coordinate vector of v with respect to the basis T:

Given v = 17 - 3t + 2, we need to find its coordinate vector with respect to the basis T.

T = {(1 1 2) (2 -7 3) (-2 1 t)}

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