Question 1-2

Question 1

1 point possible (graded)

Which of the following structure definitions is formed correctly and matches the domain analysis in the previous video?

- `(define-struct cow (x y dx))`
- `(define-struct (cow x y dx))`
- `(define-struct (cow x dy))`
- `(define-struct cow (x dx))` ✔

Explanation

`(define-struct cow (x dx))` is formed correctly, and has an x-position and x-velocity, whcih is the changing information in the domain analysis

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Answers are displayed within the problem

Question 2

1 point possible (graded)

Choose the best type comment for `Cow`:

- `;; Cow is (make-cow Natural Natural)`
- `;; Cow is (make-cow Integer Integer)`
- `;; Cow is (make-cow Natural[0, WIDTH] Integer)` ✔
- `;; Cow is (make-cow Natural[0, WIDTH] Natrual[0, WIDTH])`

Explanation

The cow always remains on the screen, so the x-position is between 0 and WIDTH. The x-velocity could be anything, but we choose an integer to make things simpler later on.

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