Q1: Which of these are not equivalent to a Turing machine?

- A turing machine whose tape head must always move to the right. [✓]
- A turing machine with 3 tapes.
- A push down automata (PDA) with 2 stacks.
- Lambda calculus (Google this if you don't know what this is)
- A Non deterministic turing machine.

Q2: Which of these are not equivalent to a two stack PDA?

- One stack PDA [✓]
- Turing machines
- Three stack PDA
- Four stack PDA
Q3: The collection of decidable languages is not closed under: *

- Union
- Complements
- Concatenation
- Intersection
- Star

None of the above

Feedback: Good!

Q4: Consider the language of $N = \{<M,w>: M \text{ is a DFA, } w \in L(M)\}$. Then which of the following is true: *

- $N$ is decidable
- $N$ is undecidable
- $N$ is both
- $N$ is neither

Feedback: Good!
Q5: Which of the following ordering is true:

- Regular ⊆ CFG ⊆ Decidable ⊆ Turing recognizable
- CFG ⊆ Regular ⊆ Turing recognizable ⊆ Decidable
- Regular ⊆ CFG ⊆ Turing recognizable ⊆ Decidable
- Undecidable ⊆ Unrecognizable ⊆ Non CFL ⊆ Non regular

Feedback

Good!