

Answers to Questions 6

Questions 1 and 2: Student's guess

Question 5:

Answers to Questions 5-

This is for a typical 0 game, rather than zombies.

Question 7: The least number of new zombies occurs at round 8 and beyond.

Question 8: The greatest number of new zombies occurs at round 4

Question 9: The graph of new zombies corresponds to the growth rate (derivative) of the total

group of 24 (including demonstrators).

4. In Game 2, what effect does the number of people with immunity have on the number of survivors?

The starting number of humans with immunity decides the minimum number of survivors.

The more people there are with immunity, the less likely a non-immune person is to interact with a zombie. This will decrease the rate of infection.

These two factors increase the probability of non-immune humans surviving the outbreak.

5. $-7(t) = e^{-0.005T} (3.047 - 0.7T)$