Unit 4: Rational Functions

1.A medicine is given at a dosage of 200 mg. The concentration in the bloodstream after t hours is modeled by:

$$a.C(t) = \frac{200}{t+2}$$

- b. What is the vertical asymptote? What does it mean in context?
- c. Find the concentration at t=2 hours.
- 2. Simplify and state any restrictions:

$$\frac{x^2-9}{x^2-x-6}$$