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Problem #1 (*Measurement; volume units, time units, conversions*):

A horse needed intravenous (IV) fluids (this means that the fluids go directly into the bloodstream through a tube and needle). The fluid is to be delivered to the horse at 3 liters per hour. The IV administration set delivers 10 drops per milliliter to your patient (10 drops through the tube equals 1 milliliter). How many drops per minute should the horse receive to get 3 liters per hour?

Problem #2 (*Algebra; determine linear equation given two points, determining equation of parabola give three points*):

The graph below represents the heart rate of a horse running on a treadmill, at several different speeds of the treadmill. A) Draw a straight line that approximates the graph and find the equation of that line. B) Find the equation of the parabola the fits three points on this curve. How close does it come to fitting all five points?

