1. The MD orders augmentation of labor with Pitocin (Oxytocin). Pitocin comes in a vial with 10U/cc and is added to 1 liter of Normal saline (NS).

The order reads? “Begin augmentation at 1mU/min and increase by 1mU q 30 minutes.”

a. What is the concentration of the solution?

Because the concentration mU/per cc is asked, start with this value in the numerator.

\[
\frac{1000\text{ mU}}{10\text{ U}} \times \frac{10\text{ U}}{1000\text{ cc}} = \frac{10\text{ mU}}{\text{cc}}
\]

b. What is the flow rate needed to begin the infusion 1MU/min?

Because the flow rate is in mL/hr, start with this value in the numerator.

\[
\frac{1\text{ mL}}{1\text{ min}} \times \frac{1\text{ mL}}{10\text{ mU}} \times \frac{60\text{ min}}{1\text{ hr}} = \frac{60}{10} = \frac{6\text{ mL}}{\text{hr}}
\]

c. What would be the flow rate to infuse Pitocin at 12mU/min?

\[
\frac{1\text{ mL}}{10\text{ mU}} \times \frac{12\text{ mU}}{1\text{ min}} \times \frac{60\text{ min}}{1\text{ hr}} = \frac{720}{10} = 72\text{ mL/hr}
\]