

Suggested Teacher Prompts

(Before worksheet - plain graph on transparency)

- *What does each axis represent?*
- *What does the interval of one box mean?*
- *Is it different each direction?*

The blue tank starts losing water. At the same time, red tank starts filling up with water.

Label the lines on the graph to represent each tank. **Explain your choice.**

- *Are the two tanks the same size?*
- *How much water does each tank start with*
- *Which tank has faster flowing water?*

Assuming that the water keeps flowing at the same rate, when will the two tanks have the same amount of water? **Explain how you got your answer.**

- *Extend the lines?*
- *Make a table?*
- *Highlight your answer.*

Write an equation for each tank.

- *Define the variables.*
- *What is the slope of the line?*
- *What is the yint?*
- $v = 900 - 50t$
- $v = 300 + 25t$

Solve the two equations by substitution

Compare the answer to your answer from the graph. **Explain your observation.**