

## Spring Flowers

**High School:** Many landscapers use climbing flowering plants to help cover a wall or make a beautiful walkway such as a terrace. Table 1 provides the growth rate and initial height for three types of climbing flowering plants.

Name of Plant	Vertical Growth Rate (inches per year)	Initial Height (in inches) at Planting
Climbing Rose	52	16
Honeysuckle	60	12
Wisteria Vines	78	6

1. Write an equation to represent the height ( $y$ ) of a climbing rose based on  $x$  number of years.

**Equation:** \_\_\_\_\_

2. Raymond claims that the Honeysuckle will be taller than the climbing rose in  $\frac{1}{2}$  of a year. Do you agree with Raymond's claim? Justify your decision.

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3. Bruce wants to hide a wall at venue. The wall is 12 feet tall. Which plant do you suggest Bruce use to hide the wall? In your answer tell the number of years it will take for the plant to hide the wall. Justify your answer.

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