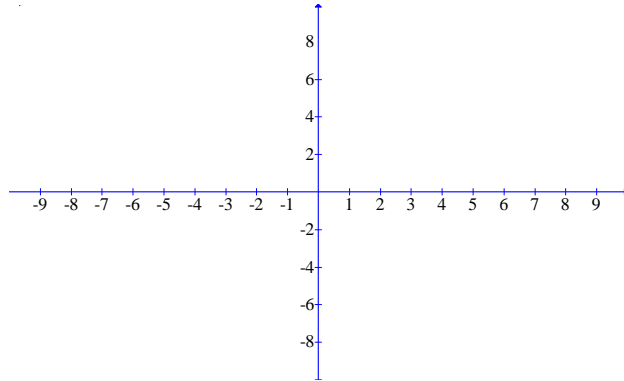**TRS 92: Domain and Range**

Graph the equation using your graphing calculator and sketch the graph below. For #1, 2, and 4 use a standard window. For #3, change the window to match the axes shown.
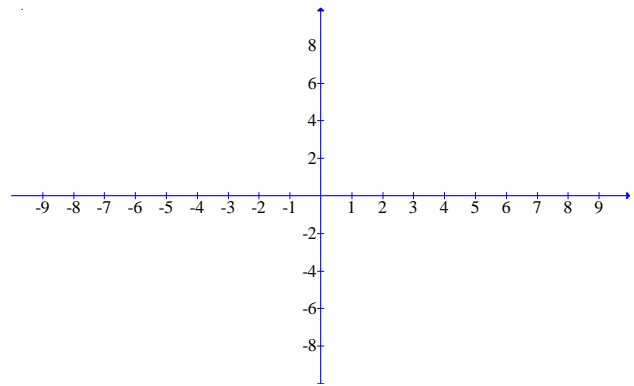
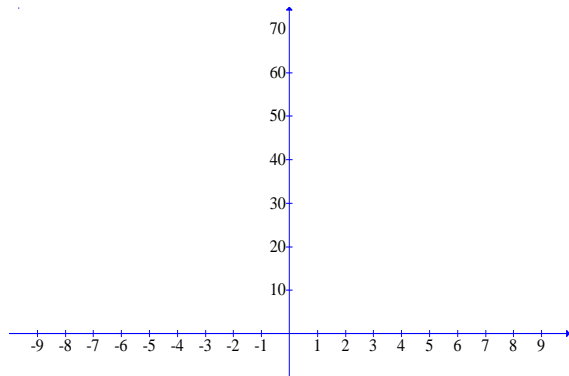1. $f(x) = \dfrac{2}{3}x - 4$

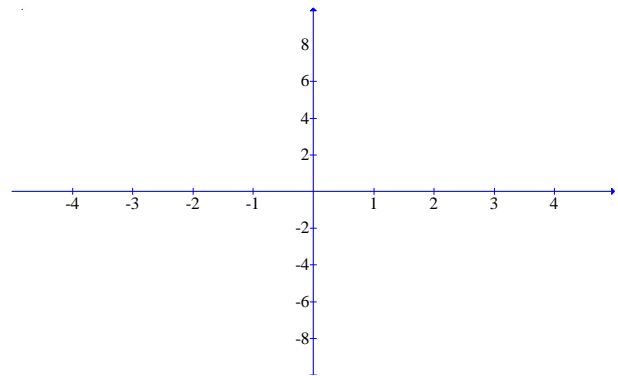Domain:

Range:

2. $C(t) = 2t^2 + 2$

Domain:

Range

3. $h(t) = -16t^2 + 64t$

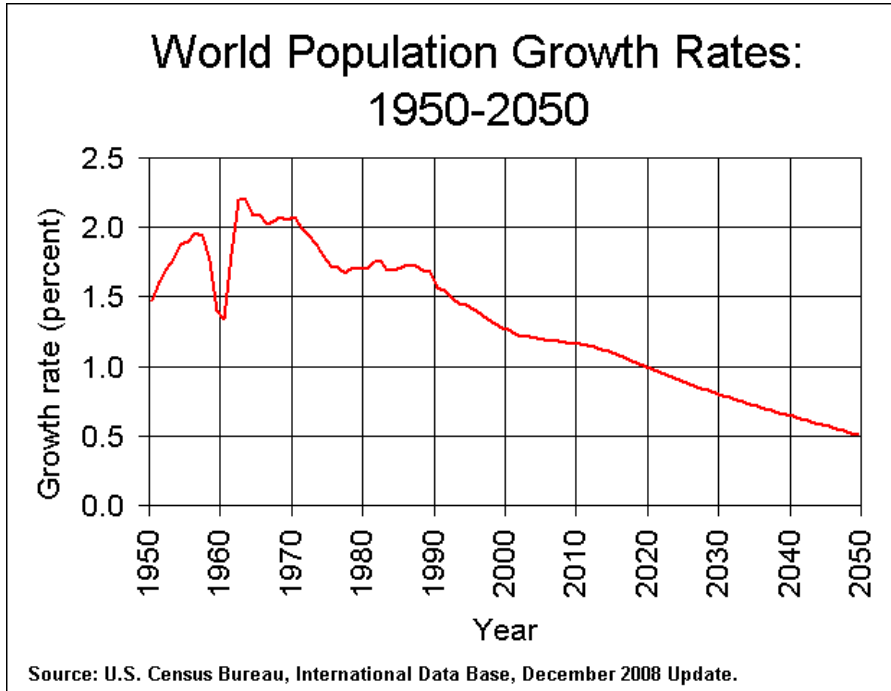Domain:

Range:

4. $d(x) = 4$

Domain:

Range:

Review of Functions
5. The graph below shows historical data and future projections for the World Population
    Growth Rates with *t* representing the independent variable, time in years since 1950, and *G*
    representing the dependent variable of the growth rate as a percentage.

World Population Growth Rates: 1950-2050

Source: U.S. Census Bureau, International Data Base, December 2008 Update.

a. What is the domain of this graph? Use correct notation.

b. What is the range of this graph? Use correct notation.

c. What is *t* if G(*t*) = 2.0?

d. What is G(2000)?