Name _____

1-4A Lesson Master

PROPERTIES   Objective H

In 1 and 2, use the graph of _P(x)_ at the right.
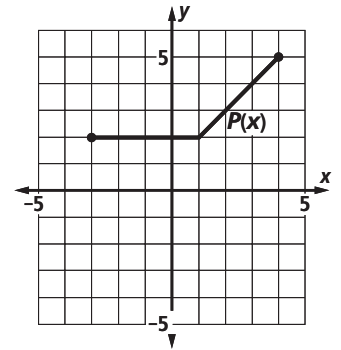
1. Give the domain and range of $P(x)$.

     _____

     _____

2. Find $P(-2)$ and $P(3)$.

     _____

USES Objective J

In 3 and 4, the height _h_ (in feet) of a ball _t_ seconds after it is dropped from a 20-story building is given by $h(t) = 225 - 16t^2$. Find the indicated value and explain what it means in context.

3. $h(3)$ _____

4. $h(3.75)$ _____

REPRESENTATIONS   Objective L

In 5 and 6, graph the function on your grapher's standard window. Use the graph to a. estimate the value of the function when _x_ = 2, and b. find the domain and range of the function.

5. $f(x) = x^2 + 2x - 3$

     a. _____   b. _____

6. $g(x) = 3 - \sqrt{x + 4}$

     a. _____   b. _____