Bell Work

Graphing from a Verbal Description

A linear function g models a relationship in which the dependent variable increases 3 units for every 1 unit the independent variable increases. Graph g when g(0) = 3. Identify the slope and the intercepts of the graph.

Graphing from a Verbal Description

A linear function h models a relationship in which the dependent variable decreases 2 units for every 5 units the independent variable increases. Graph h when h(0) = 4. Identify the slope and the intercepts of the graph.

A submersible that is exploring the ocean fl oor begins to ascend to the surface. The function h(t) = 650t − 13,000 models the situation, where h(t) is the elevation (in feet) of the submersible t minutes from the time it begins to ascend.

a. Graph the function and find its domain and range.

b. Interpret the slope and the intercepts of the graph.