Math 120 Intermediate Algebra

Class Notes: Functions

Ex 3 For each graph, determine (a) \( f(1) \); (b) the domain; (c) any \( x \)-values for which \( f(x) = 2 \); and (d) the range. Use set-builder and interval notation.

a) Page 92 #28

\[ \text{Graph A} \]

b) Page 92 #30

\[ \text{Graph B} \]

Ex 4 Determine the domain and range of each function. Use set-builder and interval notation.

a) Page 92 #40

\[ \text{Graph C} \]

b) Page 92 #42

\[ \text{Graph D} \]

c) Page 92 #44

\[ \text{Graph E} \]

d) Page 93 #48

Ex 5 Determine whether each of the following is the graph of a function.

a) Page 93 #50

\[ \text{Graph F} \]

b) Page 93 #52

\[ \text{Graph G} \]

c) Page 93 #54

\[ \text{Graph H} \]

Ex 8 Find each.

\[ f(2) = \]

\[ f(0) = \]

\[ f(-4) = \]

\[ f(3) = \]

\[ f(-1) = \]
Ex 9 Find the domain or range (or both).

Domain:____________
or_________________

Domain:____________
or_________________

Domain:____________
or_________________

Domain:____________
or_________________

Range:____________
or_________________

Domain:____________
or_________________

Range:____________
or_________________

Ex 10 Find each.

\( f(x) = -3 \)

\( f(x) = 5 \)

\( f(x) = -2 \)