

Go Over Review 1.1.notebook

- 1.) In your own words...
2.) In your own words...
3.) No 4.) Yes
5.) a. $(-\infty, 1]$
b. $[-1, \infty)$
c. Yes
6.) a. $(-3, 4]$
b. $[-1, 2]$
c. No
7.) a. 3 b. 21
c. $x^2 + x + 1$
- 8.) $f(-1) = 2$ $f(3) = 4$
D: $(-\infty, \infty)$
R: $[1, \infty)$
9.) $f(-4) = 0$
D: $(-6, 0]$
R: $[-3, 4)$
10.) $f(-2) = 0$ $f(2) = 4$
D: $(-\infty, \infty)$
R: $[0, \infty)$
11.) $f(4) = 0.5$
D: $(-\infty, -3) \cup (-3, 3) \cup (3, \infty)$
R: $(-\infty, \infty)$
- Answer Key to Review 1.1**
- 12.) $3x - 2$
13.) $x^2 + 2x - 15$
14.) $2x^2 + 3x - 35$
15.) $x - 2$
16.) $2x + 3$
17.) $2x^2 + 6x - 27$
18.) $x^2 + 10x + 16$
19.) $4x^2 - 22x + 18$
20.) 8
21.) 47

22. $[6, \infty)$
23. $(-\infty, -8) \cup (-8, 8) \cup (8, \infty)$
24. $(-\infty, \infty)$
25. $(3, \infty)$
26. a. $f(x) = .92x$
b. $g(x) = x - 200$
c. Result: $.92x - 184$ Explain: This is the function if the \$200 was subtracted first, then the 8% discount last.
d. Result: $.92x - 200$ Explain: This is the function if the price was discounted 8% first, then the \$200 subtracted last.
e. Taking the 8% discount first then the \$200 off last is the best deal for you, with a difference of \$16 versus the other way.