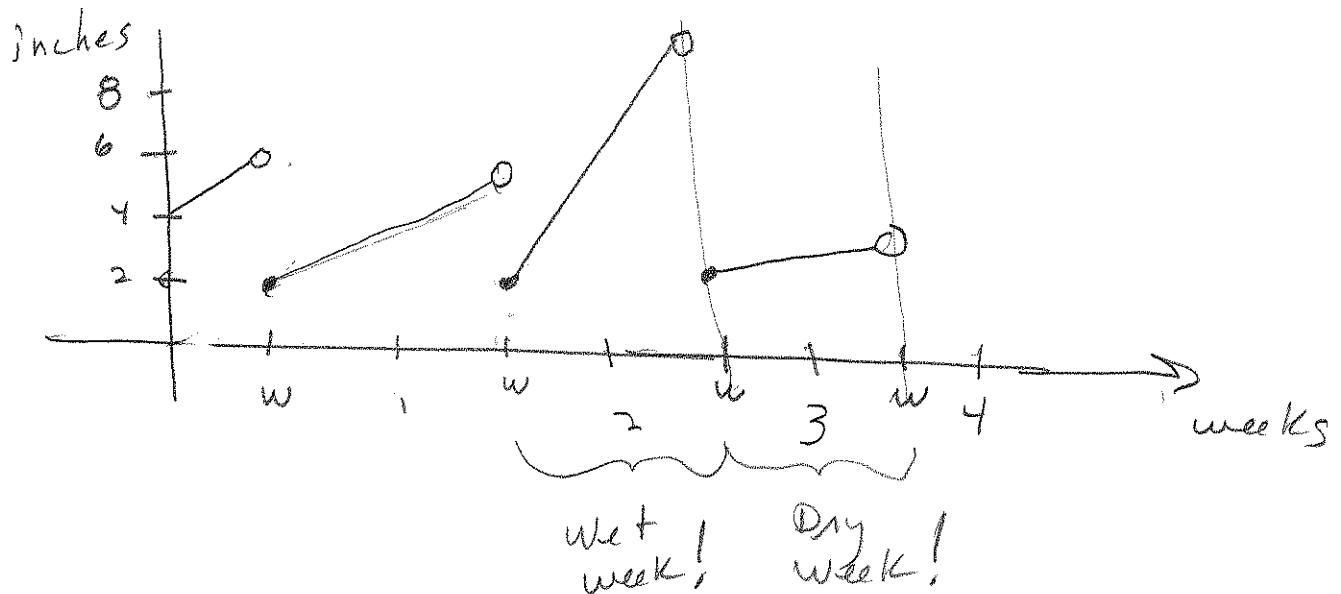


201 #1, #5 21, 25, 43, 47-59, 63, 73, 77 ODDS.

(21) A homeowner mows the lawn once a week, on Wed. Sketch a graph of the grass-height function over 4 weeks.



(25) $f(x) = 3x^2 - x + 2 \rightarrow$

$$f(2) = 3(2)^2 - 2 + 2 = 12 = f(2)$$

$$f(-2) = 3(-2)^2 - (-2) + 2 = 12 + 4 = 16 = f(-2)$$

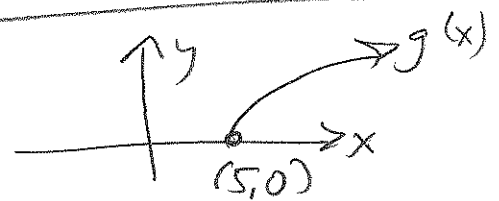
$$f(a) = 3a^2 - a + 2$$

$$f(-a) = 3(-a)^2 - (-a) + 2 = 3a^2 + a + 2 = f(-a)$$

$$f(a+1) = 3(a+1)^2 - (a+1) + 2 = 3(a^2 + 2a + 1) - a - 1 + 2$$

$$= 3a^2 + 6a + 3 - a + 1 = 3a^2 + 5a + 4 = f(a+1)$$

#5 39-50 Find \mathcal{D} of sketch



(43) $g(x) = \sqrt{x-5} \rightarrow \mathcal{D}(g) = \{x \mid x-5 \geq 0\}$
 $= \{x \mid x \geq 5\} = [5, \infty) = \mathcal{D}(g)$