

6.) $h(x) = 5x^2 + 4x + 2$; find $h(-2)$

$$5(-2)^2 + 4(-2) + 2$$

$$20 - 8 + 2$$

$$12 + 2 = 14$$

7.) $p(x) = 2^x + 4$; find $h(3)$

$$(2)^3 + 4$$

$$8 + 4 = 12$$

8.) $f(x) = 7x^2 + 3$; find $f(3)$

$$7(3)^2 + 3$$

$$63 + 3$$

9.) $f(x) = 2x + 9$; $g(x) = 7x + 2$

a) find $f(x) - g(x)$

$$(2x + 9) - (7x + 2)$$

$$-5x + 7$$

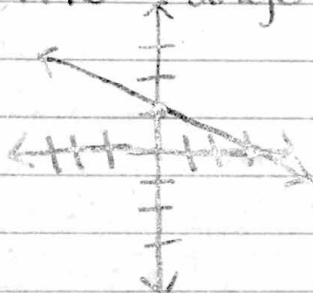
b) $g(x) + f(x)$

$$(2x + 9) + (7x + 2)$$

$$9x + 11$$

10.) If the domain of $f(x) = 2x + 1$ is $\{0, 5, 7\}$
find the range $\{1, 11, 15\}$

11.)



Domain $(-\infty, \infty)$

Range $(-\infty, \infty)$

x-int: 3

y-int: 1

Slope: $-\frac{1}{3}$

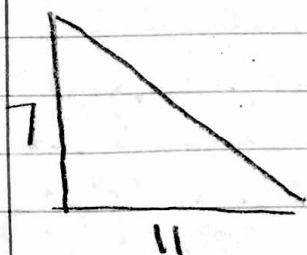
End Behavior $x \rightarrow \infty$ $y \rightarrow -\infty$

$x \rightarrow -\infty$ $y \rightarrow \infty$

Interval of $(-\infty, \infty)$

increase/decrease: decrease

12.) Find the Slope



$$-\frac{7}{11}$$