



Find the following:

- | | | |
|---|--------------------------------------|--------------------------------------|
| 1) $f(-1) + h(7) = -2 + 2 = 0$ | 6) Where is $f(x) > g(x)$? | 9) The max value of $g(x) - h(x)$ |
| 2) $g(0) - h(-1) = 2 - (-2) = 4$ | $\{0 < x \leq 7\}$ | $g(-4) - h(-4) = 2 - (-2) = 4$ |
| 3) $f(0) + g(5) + h(-4) = 2 + (-1) + (-2) = -1$ | 7) Where is $g(x) \leq h(x)$? | 10) The min value of $f(x) - h(x)$ |
| 4) $g(7) - f(4) + h(4) = -2 - 2 + 2 = -2$ | $\{2 \leq x \leq 7\}$ | $f(7) - h(7) = 0 - 2 = -2$ |
| 5) At what values of x are: | 8) Where is $f(x) - h(x)$ positive? | 11) Where is $h(x) - g(x)$ negative? |
| $f(x) = g(x)?$ 0 | $\{-4 \leq x < 4, x \neq -1\}$ OR | $\{-4 \leq x < 2\}$ |
| $g(x) = h(x)?$ 2 | $\{-4 \leq x < -1$ or $-1 < x < 4\}$ | |
| $f(x) = h(x)?$ -1, 4 | | |