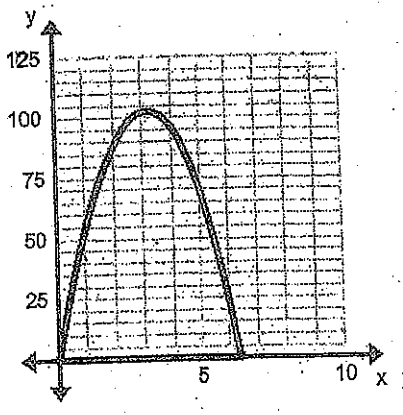
2-5 Notes

Domain & Range

Check List

- Identify the Function
- Determine the variable for the domain (input) and range (output)
- Determine the least and most for the domain.
- Plug in the least and most of the domain to find the range.

Marcus punted a football with an initial velocity of 64 feet per second. The height, h, of the ball after t seconds is represented by the equation $h = 64t - 10t^2$. The graph of the function is shown



What is a good estimate for the domain and range of this function?

Domain Variable:

Domain Lower Bound:

Domain Upper Bound:

D:

Range Variable:

Range Lower Bound:

Range Upper Bound:

R:

The girl's basketball team is having a fundraiser. The girls will receive $20 plus $5 for each product, P, that they sell. What is a reasonable domain and range for this function if they are required to sell at least 5 items but no more than 50 to earn anything?

Function:

Domain Least:

Domain Greatest:

Range Least:

Range Greatest:

D: R:

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3) Mayce worked at a summer camp where she earned $20 plus $7 an hour each week, the amount of money she earned each week, E, could be represented by $E = 20 + 7h$ for h hours worked. If Mayce could not work more than 20 hours each week, what is a reasonable domain and range for this situation?

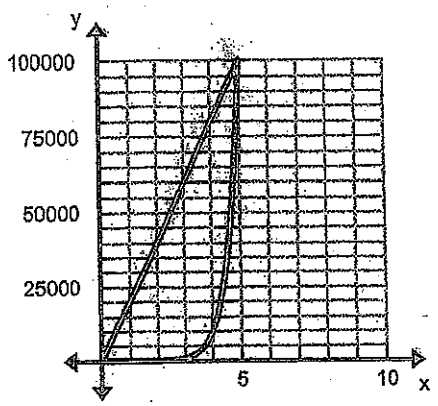
Domain Variable:
Domain Upper Bound:
Domain Lower Bound:

D:

Range Variable:
Range Lower Bound:
Range Upper Bound:

R:

4) A fragile bacteria cell multiplies at a growth of $B = 2^s$ where B is the number of bacteria cells and s is the number of seconds. In a controlled environment the scientist kill the bacteria off after 10 seconds. What is a reasonable domain and range for this function?



Domain Variable:
Domain Lower Bound:
Domain Upper Bound:

D:

Range Variable:
Range Lower Bound:
Range Upper Bound:

R: