Piecewise Functions

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NAME:
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Please circle and label your final answers especially if there is work on the paper.

1.) For the piecewise function, find the function values T(-10), T(0), and T(20).

$$T(x) = \begin{cases} 2x-5, & x<0\\ x^2, & 0 \le x \le 10\\ 10, & x > 10 \end{cases}$$
 Figure out where in the domain your x value is.

2a.) Graph the piecewise function.

$$f(x) = \begin{cases} 3x + 9, & x < 0\\ 10, & x \ge 0 \end{cases}$$



Assume one tick mark equals one unit. Draw open and closed circles neatly. Use a straight edge.

2b.) Give this function's domain and range. Use interval notation.

domain:

range: