Read each problem very carefully before starting to solve it. Each problem is worth 5 points. It is necessary to show all your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. (a) Write in list notation and graph the set

$$
\{x \text { integer }: x \text { is greater than }-7 \text { and less than or equal to } 2\} \text {. }
$$

(b) Write in interval notation and graph the set $\{x$ real : 2018 $\leq x<2020\}$.
2. (a) Write the answers in interval notation:
$[-7,3) \cup[1,5)=$
$[-7,3) \cap[1,5)=$
(b) Evaluate the arithmetic expression:

$$
5[7(-3)+|12-23|]=
$$

