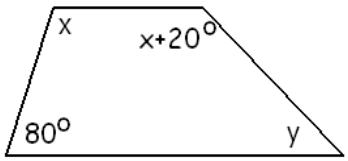
For Problems 1-12. Let $U = \{1,2,3,4,5,6,7,8,9\}$, $A = \{1,3,5,7\}$, $B = \{1,3,4,6,8\}$, and $C = \{1,4,5,6,7,9\}$

1. True or false?
   (a) $A \subseteq (B \cup C)$
   (b) $9 \in A'$
   (c) $B' \cap C' = (B \cup C)'$
2. Draw a Venn diagram depicting these sets.
3. Find $A \cap B \cap C$
4. Find $C \cap (B \cup A)$
5. Find $B \cap C'$
6. Find $A' \cup B'$
7. Find $(A \cap B)'$
8. Find $(B \cap C') \cup C$
9. Find $(A \cap B') \cup (C \cap B')$
10. Find $n(A \cup C)$
11. List all two-element subsets of C.
12. How many subsets does U have?
13. Find $n(X \cup Y)$ if we know that $n(X) = 8$, $n(Y) = 14$, and $n(x \cap Y) = 5$.
14. Find $n(X)$ if we know that $n(Y) = 20$, and $n(x \cap Y) = 6$, and $n(X \cup Y) = 30$.
15. The supplement of an angle is 4° more than three times the angle. Find the angle.
16. The largest angle of a trianlge is 70°. Find the other two angles if we know that they differ by 6°.
17. The sum of the inner angles of a polygon is 5580°. How many sides does the polygon have?
18. Find the measure of an inner angle in a regular polygon of 16 sides.
19. Find the value of x and y, based on the picture below.



20. Find the value of x, based on the picture below.