Tutorial
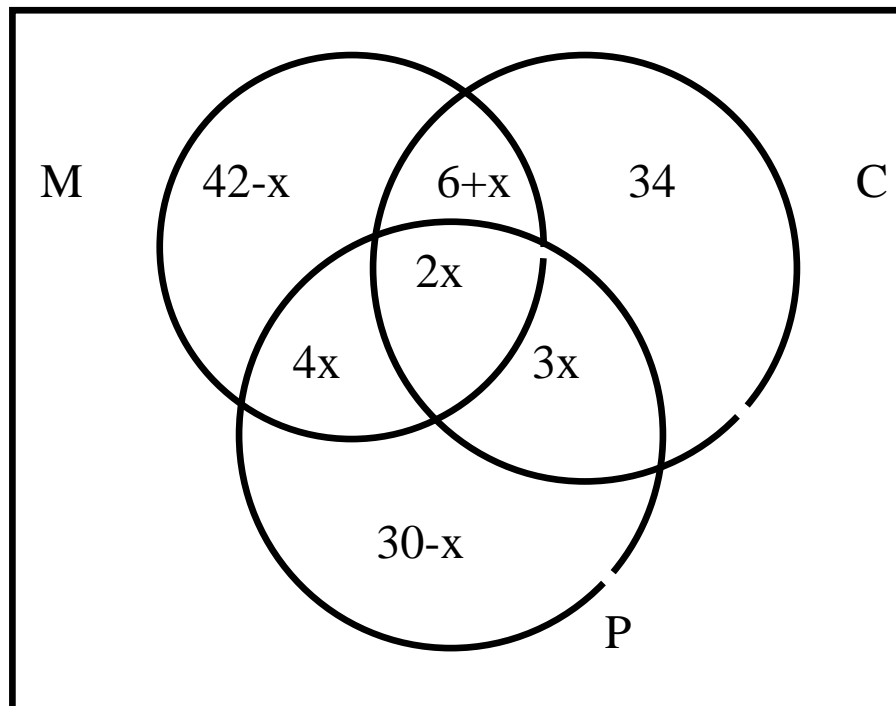
1. The set of values of x and y which satisfies the equations
   $x^2 - y - 1 = 0$ and $y - 2x + 2 = 0$ is
   A.{1,0} B. {1,1} C. {2,2} D. {0,2}

2. Given that $A = \{x: x^2 - x\}$, $B = \{2x^3 + x - 1\}$ and
   $C = \{x: x^2 - 1\}$, find $A \cap B \cap C$.
   A. $\{x\}$ B. $\{x - 1\}$ C. $\{x + 1\}$ D. $\{\}$

3. Given that $A = \{x: x^2 - x\}$, $B = \{2x^2 + x - 1\}$ and
   $C = \{x: x^2 - 1\}$, find $A \cap B \cap C$.
   A. $\{x\}$ B. $\{x - 1\}$ C. $\{x + 1\}$ D. $\{\}$

Use the Venn diagram below to answer question 4 and 5:

The Scores of 144 candidates who registered for Mathematics, Physics and Chemistry in an examination in a town are represented in Venn diagram above.

4. How many candidates registered for both Mathematics and Physics? A. 16 B. 20 C. 24 D. 64
5. How many candidates registered for both Mathematics and Physics ONLY? A. 80 B. 64 C. 24 D. 16