5. The numbers x and y satisfy the equations $x(y + 2) = 100$ and $y(x + 2) = 60$. What is the value of $x - y$?

A 60   B 50   C 40   D 30   E 20

5.   **E**   Since $x(y + 2) = 100$ and $y(x + 2) = 60$ then $xy + 2x = 100$ and $xy + 2y = 60$. Subtracting gives $2x - 2y = 40$ and therefore $x - y = 20$.