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$a \quad c \quad B \quad D$
 Let it be assumed that a, b, c, d are in A.P. & c, d are in G.P.

produced to $\frac{a}{b} = \frac{c}{d}$ $\therefore \frac{a}{b} = \frac{c}{d} = \frac{c+d}{c+d} = \frac{c+d}{2c}$ $\therefore \frac{a}{b} = \frac{c+d}{2c}$ $\therefore \frac{a}{b} = \frac{c+d}{2c}$ $\therefore \frac{a}{b} = \frac{c+d}{2c}$

then $a^2 + b^2 = c^2 + d^2$ $\therefore a^2 + b^2 = c^2 + d^2$ $\therefore a^2 + b^2 = c^2 + d^2$ $\therefore a^2 + b^2 = c^2 + d^2$

$\therefore (ac + cd)^2 + (cd - cb)^2 = c^2(a^2 + b^2)$ $\therefore (ac + cd)^2 + (cd - cb)^2 = c^2(a^2 + b^2)$ $\therefore (ac + cd)^2 + (cd - cb)^2 = c^2(a^2 + b^2)$

$\therefore (2d + ac)^2 + (cd - ac)^2 = c^2(c^2 + a^2)$ $\therefore (2d + ac)^2 + (cd - ac)^2 = c^2(c^2 + a^2)$ $\therefore (2d + ac)^2 + (cd - ac)^2 = c^2(c^2 + a^2)$

wherefore the sq. on the sum of 2 st. lines is equal to the sq. on the sum of 2 st. lines

Hence $\Pi 7$ & $\Pi 10$ might be superfluous
 as $\Pi 4$, $\Pi 7$ & $\text{Aut } 2 \& 3$.

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