(b) : Given, $|A| = \frac{1}{2}$, trace $(A) = 3$

$B = \text{adj}(\text{adj}(2A))$ $\quad [\because \text{adj}(\text{adj}A) = |A|^{n-2} A]$

$= |2A|^{3-2} (2A) = 2^3 |A|(2A) = 8A$

$\Rightarrow \quad \text{trace}(B) = 8 \text{ trace}(A) = 8 \times 3 = 24$

Hence, $|B| + \text{trace}(B) = 8^3 |A| + 24 = \frac{8^3}{2} + 24 = 280$