Use this space for computations.

20 If $r = \sqrt[3]{\dfrac{A^2 B}{C}}$, then $\log r$ can be represented by

(1) $\dfrac{1}{6}\log A + \dfrac{1}{3}\log B - \log C$

(2) $3(\log A^2 + \log B - \log C)$

(3) $\dfrac{1}{3}\log(A^2 + B) - C$

(4) $\dfrac{2}{3}\log A + \dfrac{1}{3}\log B - \dfrac{1}{3}\log C$

$r = \left(\dfrac{A^2 B}{C}\right)^{\frac{1}{3}}$

$= \dfrac{A^{\frac{2}{3}} B^{\frac{1}{3}}}{C^{-\frac{1}{3}}}$

21 The solution set of $\sqrt{3x + 16} = x + 2$ is

(1) $\{-3, 4\}$ (3) $\{3\}$

(2) $\{-4, 3\}$ (4) $\{-4\}$

*plug & chug using calc.

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