$\begin{array}{c} \textbf{Projeto Mathematical Ramblings} \\ \text{mathematical ramblings.blogspot.com} \end{array}$

Encontre
$$\lim_{t\to -2} \frac{\sqrt{3t^2-8}+t}{2t+4}$$
.

Resolução:

$$\begin{split} &\frac{\sqrt{3t^2-8}+t}{2t+4} = \frac{\sqrt{3t^2-8}+t}{2t+4} \cdot \frac{\sqrt{3t^2-8}-t}{\sqrt{3t^2-8}-t} = \\ &= \frac{2t^2-8}{(2t+4)(\sqrt{3t^2-8}-t)} = \frac{(2t-4)(t+2)}{2(t+2)(\sqrt{3t^2-8}-t)} = \\ &= \frac{2t-4}{2(\sqrt{3t^2-8}-t)} \end{split}$$

$$&= \frac{2t-4}{2(\sqrt{3t^2-8}-t)}$$
 Logo $\lim_{t\to -2} \frac{\sqrt{3t^2-8}+t}{2t+4} = \lim_{t\to -2} \frac{t-2}{\sqrt{3t^2-8}-t} = \boxed{-1}$

Documento compilado em Monday $3^{\rm rd}$ February, 2020, 15:49, UTC +0.

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