3/11/2018

$$\lim_{x \to -\infty} \frac{8x+2}{x-\sqrt{x^2-3}} = \frac{8(-\infty)+2}{-\infty-\sqrt{(-\infty)^2-3}}$$

$$= \frac{-\infty}{10} \quad \text{F. 1.}$$

$$\frac{8 \times + 2}{2 \times 2}$$

$$\frac{8 \times + 2}{\times - \sqrt{x^2 - 3}} \cdot \frac{\times + \sqrt{x^2 - 3}}{\times + \sqrt{x^2 - 3}} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)} = \frac{(8 \times + 2)(\times + \sqrt{x^2 - 3})}{\times^2 - (\times^2 - 3)}$$

$$= \frac{8 \times^{2} + 8 \times \sqrt{x^{2} - 3} + 2 \times + 2 \sqrt{x^{2} - 3}}{x^{2} - x^{2} + 3}$$

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$$8 \times + 2 \qquad \times \left(8 + \frac{2}{\times}\right)$$

$$\frac{8 \times + 2}{\times - \sqrt{x^2 - 3}} = \frac{\times (8 + \frac{2}{\times})}{\times - \sqrt{x^2 (1 - \frac{3}{2})}} = \frac{\times (8 + \frac{2}{\times})}{\times - |x| \sqrt{1 - \frac{3}{2}}} = \frac{\times (8 + \frac{2}{\times})}{\times - |x| \sqrt{1 - \frac{3}{2}}}$$

$$\times - \sqrt{x^2 - 3}$$

$$= \frac{\times \left(8 + \frac{2}{x}\right)}{\times - \left(-x\right)\sqrt{1 - \frac{3}{x^2}}} = \frac{\times \left(8 + \frac{2}{x}\right)}{\times + x\sqrt{1 - \frac{3}{x^2}}}$$

fer che  $\rightarrow -\infty$ 

 $\sqrt{x^2} = |x|$ 

(quindi à neighira)  
quindi 
$$|X| = -X$$

$$=\frac{\cancel{\cancel{8}}(\cancel{8}+\cancel{\cancel{2}})\cancel{\cancel{3}}}{\cancel{\cancel{4}}(\cancel{4}+\cancel{\cancel{4}}\cancel{\cancel{2}})\cancel{\cancel{3}}\cancel{\cancel{3}}} = \frac{\cancel{8}}{\cancel{4}} = \frac{\cancel{8}}{\cancel{2}} = \boxed{\cancel{4}}$$

$$\vec{J} = \frac{8}{2} = \boxed{4}$$