

Find the limits, if they exist, or type DNE for any which do not exist.

$$\lim_{(x,y) \rightarrow (0,0)} \frac{5x^2}{4x^2 + 3y^2}$$

- 1) Along the  $x$ -axis:
- 2) Along the  $y$ -axis:
- 3) Along the line  $y = mx$ :
- 4) The limit is:

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