## Answer on Question 42995, Math, Calculus

$$f(x) = \frac{3x^2 - 4x - 3}{2x^2 - 3x + 2}$$

The horizontal asymptotes are found, evaluating limits of the function as it approaches positive or negative infinity:

 $y = \lim_{x \to \infty} f(x) = \lim_{x \to \infty} \frac{3x^2 - 4x - 3}{2x^2 - 3x + 2} = \frac{3}{2}$  - this is the horizontal asymptote as x goes to infinity.  $y = \lim_{x \to -\infty} f(x) = \lim_{x \to -\infty} \frac{3x^2 - 4x - 3}{2x^2 - 3x + 2} = \frac{3}{2}$  - this is the horizontal asymptote as x goes to minus infinity.