

Answer on Question #42985 – Math – Algebra

Question

Use the Rational Zeros Theorem to write a list of all potential rational zeros

$$f(x) = 2x^3 - 5x^2 + 7x - 3$$

Solution

Factors of constant term: $\pm 1, \pm 3$.

Factors of leading coefficient: $\pm 1, \pm 2$.

Possible values of $\frac{p}{q}$: $\pm \frac{1}{1}, \pm \frac{1}{2}, \pm \frac{3}{1}, \pm \frac{3}{2}$. So, potential rational zeros of f are:

$$\pm 1, \pm \frac{1}{2}, \pm 3, \pm \frac{3}{2}.$$

Answer. $\pm 1, \pm \frac{1}{2}, \pm 3, \pm \frac{3}{2}$.