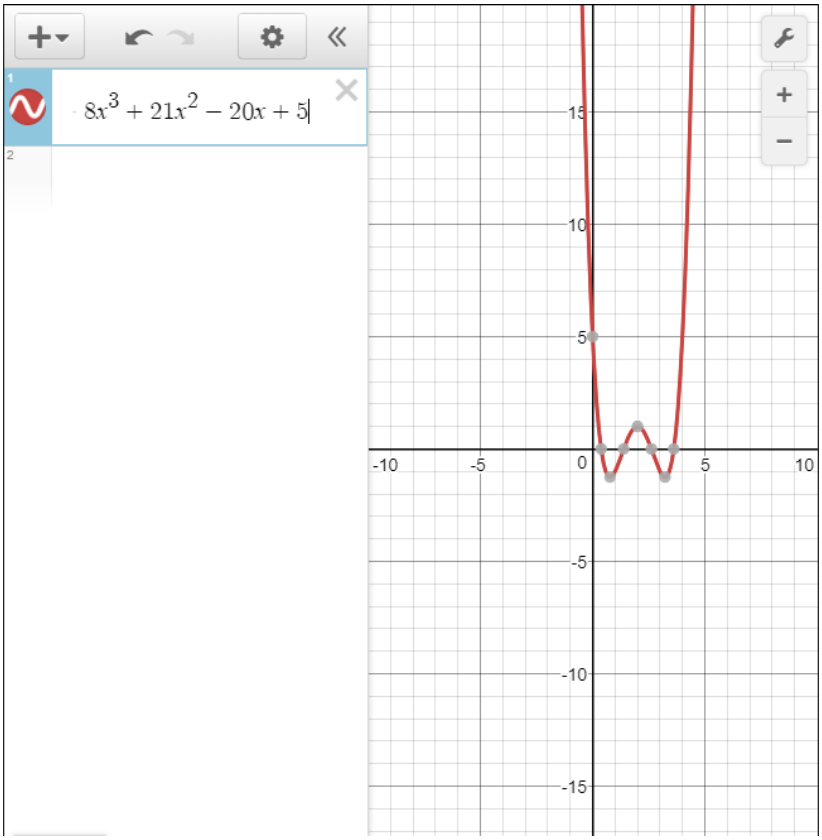
Answer on Question #78722 – Math – Algebra

Question

Solve x^4-8x^3+21x^2-20x+5=0 given that the sum of the two of its roots is 4?

Solution

I plotted this function.



The graph intersects the x-axis at points (0.382;0), (1.382;0), (2.618;0), (3.618;0).

The sum of x-coordinates of the first and the fourth points is 4. The sum of x-coordinates of the second and the third points is 4.

Answer: (0.382;0), (1.382;0), (2.618;0), (3.618;0).