

Answer on Question # 42520 – Math Calculus

Find a cubic function with the given zeros.

Square root of seven., -Square root of seven., -4

$$f(x) = x^3 + 4x^2 + 7x - 28$$

$$f(x) = x^3 + 4x^2 - 7x - 28$$

$$f(x) = x^3 - 4x^2 - 7x - 28$$

$$f(x) = x^3 + 4x^2 - 7x + 28$$

show work and explain me please i'm still having problem on $f(x)$.

Solution.

We can determine the cubic function from the expression:

$$(x - \sqrt{7})(x + \sqrt{7})(x + 4) = 0, \text{ as zeros are } \sqrt{7}, -\sqrt{7}, -4.$$

So, we have

$$(x - \sqrt{7})(x + \sqrt{7})(x + 4) = (x^2 - 7)(x + 4) = x^3 + 4x^2 - 7x - 28.$$