

Polynomial Functions

Question

For which integer values of a , b , c and d will the the polynomial $ax^3 + bx^2 + cx + d$ have three distinct roots?

- a $a = 1, b = 2, c = 4, d = 8$
- b $a = 1, b = 2, c = -4, d = -8$
- c $a = 2, b = 2, c = 4, d = 4$
- d $a = 2, b = 4, c = 4, d = 8$