Биквадратные уравнения

1) 25x^4 + 66x^2 − 27 = 0

x^2 =t

25t^2 + 66t - 27 = 0

D = 33^2 -25*-27 = 33^2+25*27=42^2*

t1= (-33 + 42)/25 = 9/25

t2 = (-33 -42) /25 = -75/25 = -3

x^2 = 9/25

x^2 - 9/25 = 0

(x-3/5)(x+3/5) = 0

0 or 0

x=⅗ x=-⅗

x^2 = -3

no answer

answer : ⅗ ; -⅗

2) x^6 + 9x^3 + 8 = 0

x^3 = t

t^2 + 9t + 8 = 0

D = 81 - 32 = 49

t1 = (-9-7)/2 = -8

t2 = (-9+7)/2 = -1

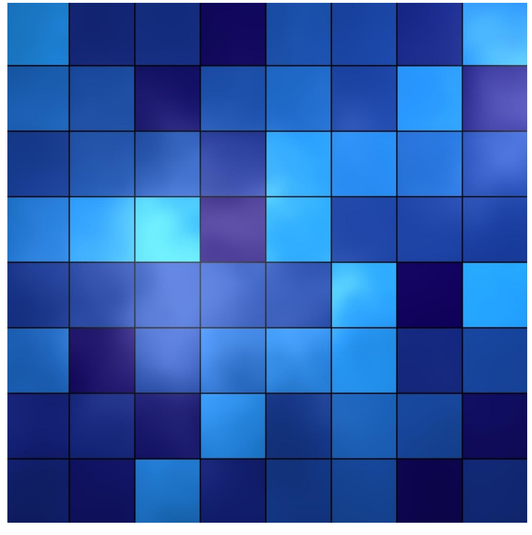
x^3 = -8

x = -2

x^3 = -1

x = -1

answer : -1;-2



V17.64=42

-16

82 | 164

2 | 164

0