

Problem #16 – Middle School



Kyle approaches a foot bridge. Carly is standing at the beginning of the bridge. Carly says to Kyle, "I have an easy job for you. Each time you cross this bridge, I will double the money in your pocket. But, each time you cross the bridge, you have to pay me \$24 after I double your money.

Kyle crossed the bridge and had twice as much money as he initially had in his pocket. Kyle then paid Carly \$24. Kyle crossed the bridge a second time and again his money was doubled. Kyle paid Carly \$24. Kyle crossed the bridge a third time and again his money was doubled. Kyle paid Carly \$24 but now Kyle is left with no money.

How much money did Kyle begin with when he first met Carly at the Bridge?

Due date: Friday, February 10th, 2012

Submit to Mr. Streit in person or email your solution. Please place the POW number and your name in the Subject line of your email. If you submit it early you can get feedback and re-submit if it is incorrect.

christian.streit@aas.ru

All work must be shown to explain your solution.