

Math 79 Class Exercise 1: Assessment
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Do as indicated:

1. $1+1=?$
2. $10/2 = ?$
3. $120/3 = ?$
4. $2/3+5/6 = ?$
5. $2/3 + 10/7 = ?$
6. find the roots to $x^2 + 2x + 1 = 0$
7. If you flip a quarter, what is the probability of obtaining a heads? How's about a tails?
8. If you flip 2 quarters sequentially, what is the probability of obtaining two heads? How's about the first being a heads and the second being a tails?
9. Find a solution for x and y for the following system:

$$x + 2y = 10 \tag{1}$$

$$3x + y = 20 \tag{2}$$

10. Find a solution for x, y, z for the system:

$$x + y + z = 1 \tag{3}$$

$$x + 2y + 4z = 4 \tag{4}$$

$$3x + 2y + z = 1 \tag{5}$$

11. Can you find a system of 2 equations in 2 unknowns that have no solutions? Geometrically, what does this correspond to?
12. Can you find a system of 2 equations in 2 unknowns that have infinitely many solutions? Geometrically, what does this correspond to?