

Math 4a. Homework 25.



1. There are 10 points marked on the paper, any three of them do not belong to the same line. How many segments with ends at these points can be drawn?
2. A musketeer has three beautiful hats, four elegant tabards, and two pairs of excellent boots. How many different costumes can he wear?
(tabard - a sleeveless jerkin consisting only of front and back pieces with a hole for the head.)
3. Fill the empty spaces in the table:

a	0	1	-1	10	-10	0.1	-0.1	$\frac{1}{2}$	$-\frac{1}{2}$
a^2									
a^3									
a^4									

4. There are three cities, A, B, and C in The Magic Country. There are 6 roads going from A to B and 4 roads going from B to C and there are no roads going directly from A to C. How many different ways are there to go from A to C?
In The Magic Country city D is built. Also, two roads from A to D and from D to C were constructed. How many ways are there now no go from A to C?
5. Evaluate:

$$\left(1\frac{2}{5} + 3.5 : 1\frac{1}{4}\right) : 2\frac{2}{5} + 3.4 : 2\frac{1}{8} - 0.35 =$$

(Answer is 3)

