

Math 10A Homework Assignment (05/23 – 05/27)

Assignment will be collected on 06/03 the next Friday during the class.

Key notions introduced this week:

- (1) Vector fields;
- (2) Components of vector fields, picture vector fields;
- (3) Steady flows, gradient fields;
- (4) Flow lines;
- (5) Divergence and the gradient symbol, the change of volume;
- (6) 3×3 determinants, cross product of two vectors and curl.

Homework problems:

§4.3. 4, 8, 12, 16.

§4.4. 2, 4, 10, 16, 26, 27.