

APPENDIX

obs 1  $a = -5$   $x = 1.29$   $y = 11.1$   $x_0 = 1.630$

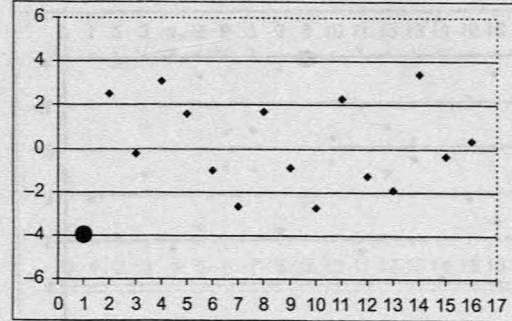
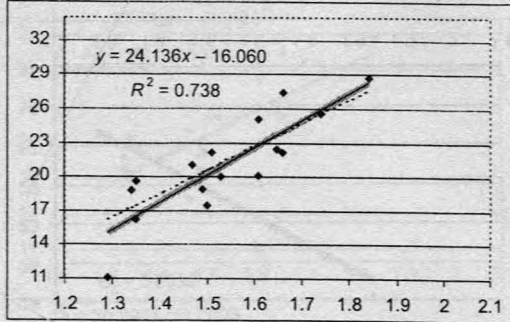


Fig. 1. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -5$  in comparison with LS method

obs 1  $a = -3$   $x = 1.29$   $y = 13.1$   $x_0 = 1.629$

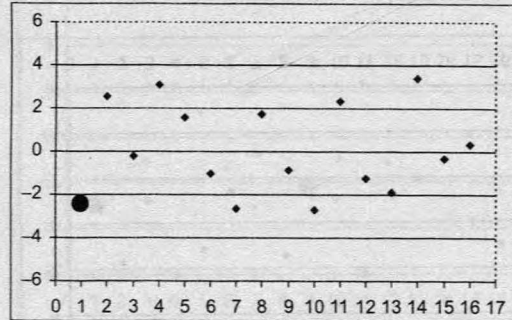
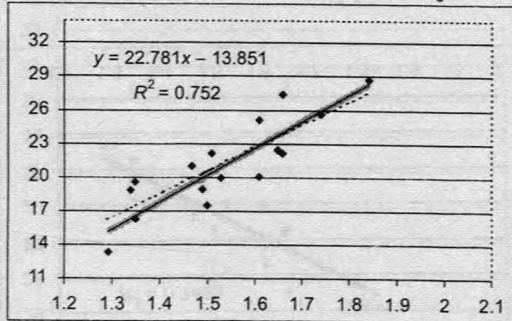


Fig. 2. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -3$  in comparison with LS method

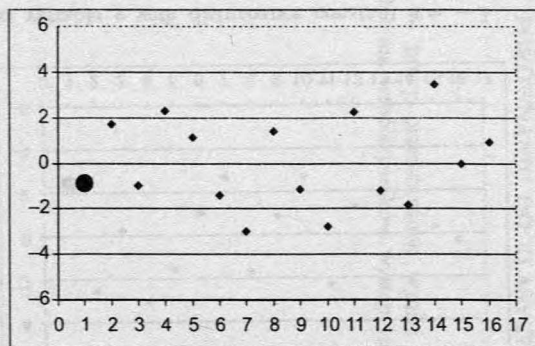
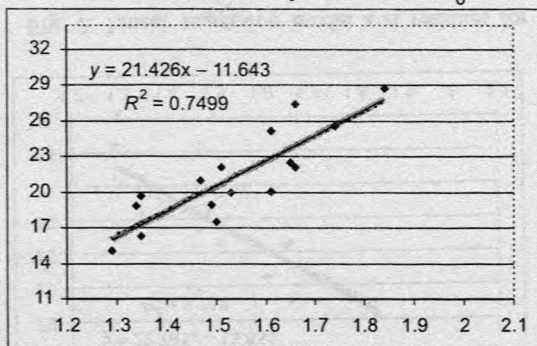
obs 1  $a = -1$   $x = 1.29$   $y = 15.1$   $x_0 = 1.631$ 

Fig. 3. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -1$  in comparison with LS method

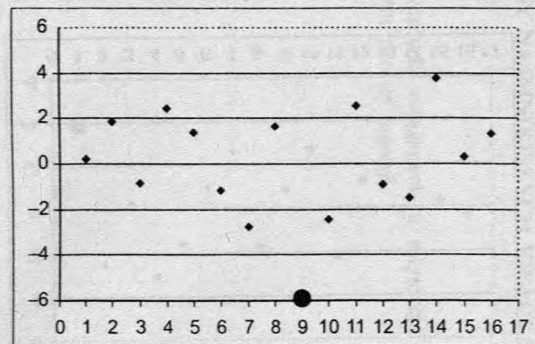
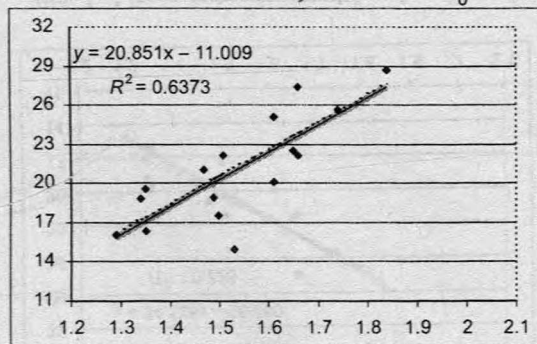
obs 9  $a = -5$   $x = 1.53$   $y = 15$   $x_0 = 4.608$ 

Fig. 4. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -5$  in comparison with LS method

obs 9  $a = -3$   $x = 1.53$   $y = 17$   $x_0 = 4.623$

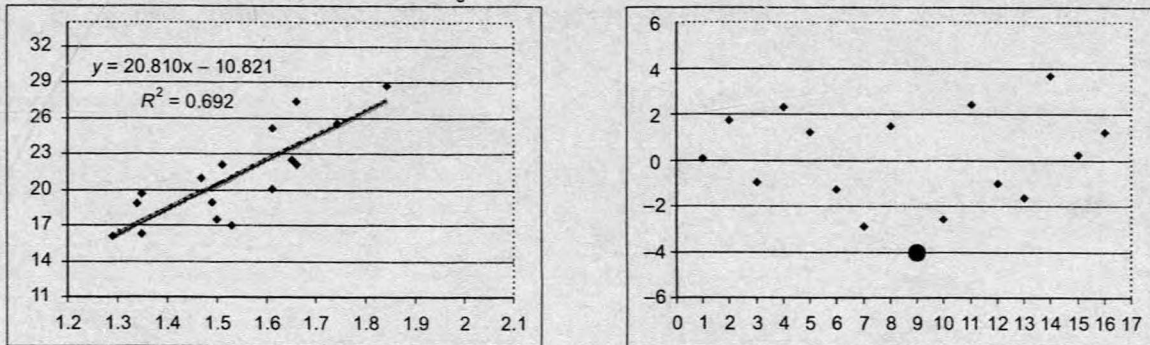


Fig. 5. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -3$  in comparison with LS method

obs 9  $a = -1$   $x = 1.53$   $y = 19$   $x_0 = 4.700$

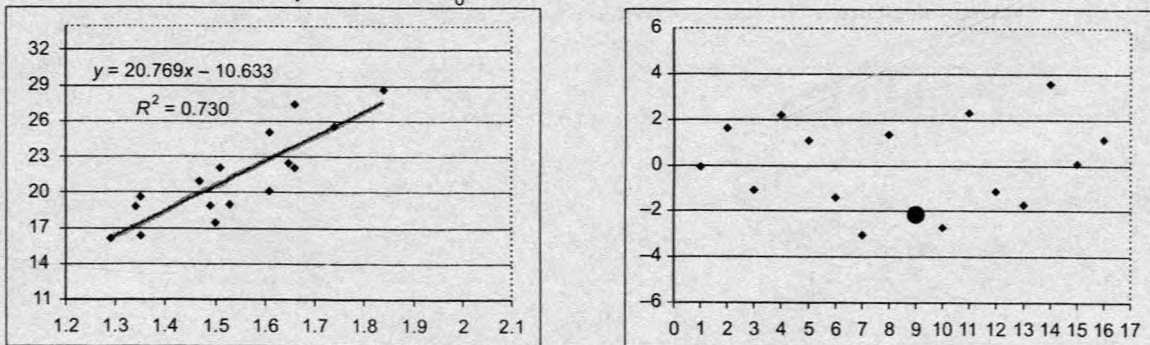


Fig. 6. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -1$  in comparison with LS method

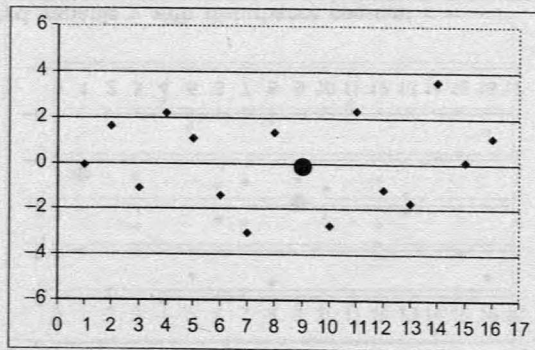
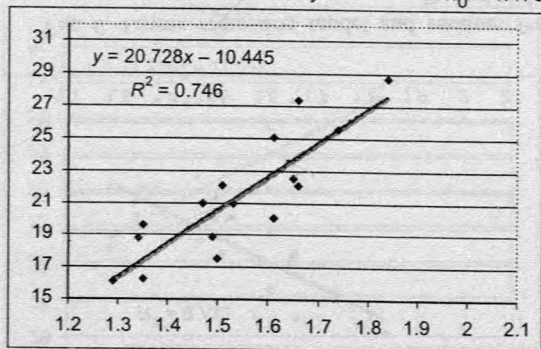
obs 9  $a = 1$   $x = 1.53$   $y = 21$   $x_0 = 4.476$ 

Fig. 7. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 1$  in comparison with LS method

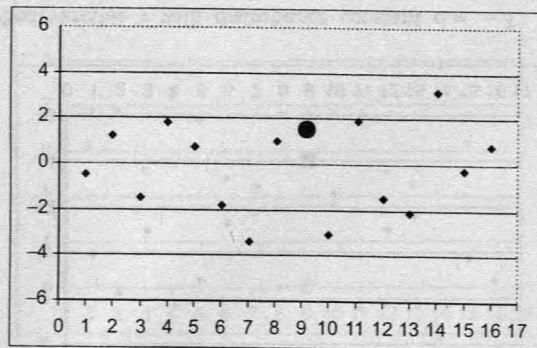
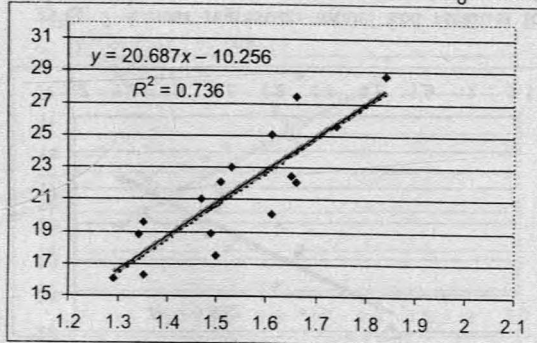
obs 9  $a = 3$   $x = 1.53$   $y = 23$   $x_0 = 4.565$ 

Fig. 8. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 3$  in comparison with LS method

obs 9  $a = 5$   $x = 1.53$   $y = 25$   $x_0 = 4.573$

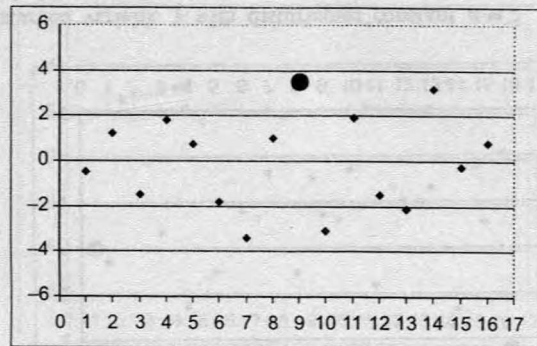
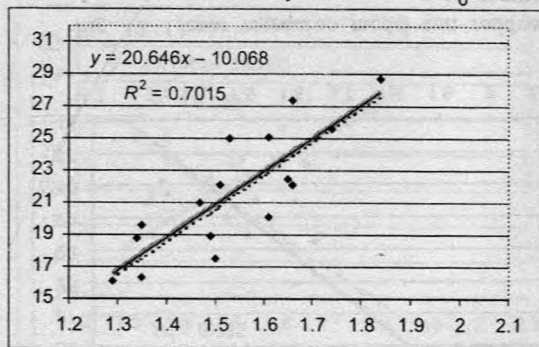


Fig. 9. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 5$  in comparison with LS method

obs 16  $a = 1$   $x = 1.84$   $y = 29.7$   $x_0 = 1.461$

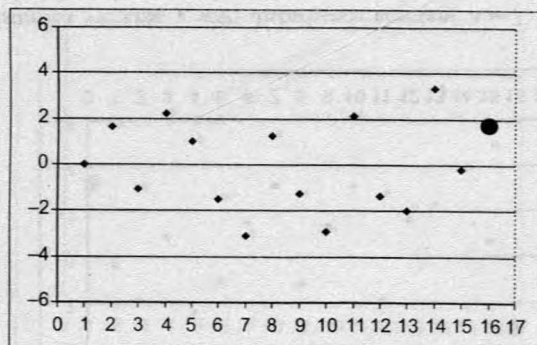
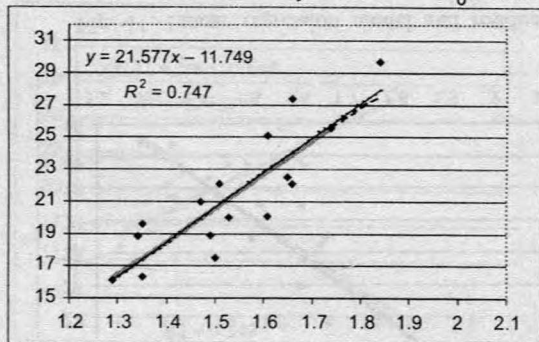


Fig. 10. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 1$  in comparison with LS method

obs 16  $a = 3$   $x = 1.84$   $y = 31.7$   $x_0 = 4.622$

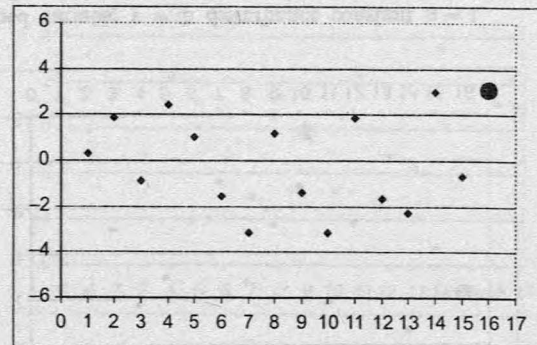
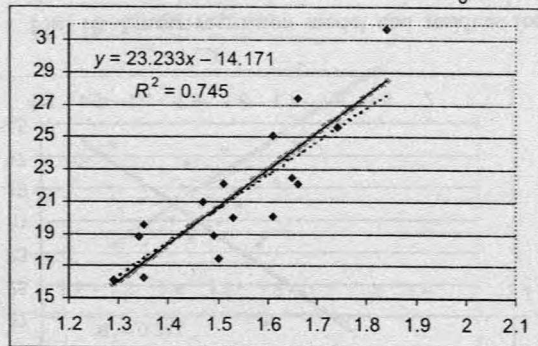


Fig. 11. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 3$  in comparison with LS method

obs 16  $a = 5$   $x = 1.84$   $y = 33.7$   $x_0 = 1.4621$

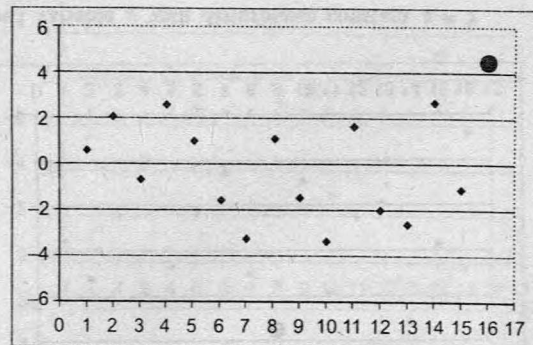
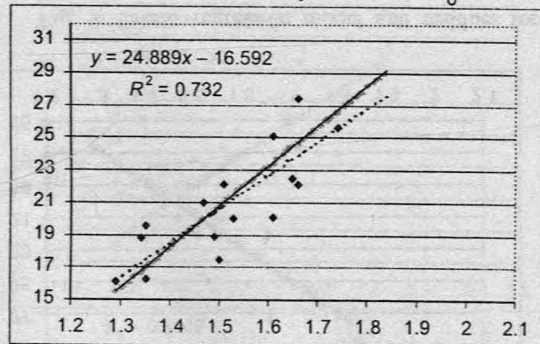


Fig. 12. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 5$  in comparison with LS method

obs 1  $a = -5$   $x = 1.29$   $y = 11.1$   $x_0 = 1.630$

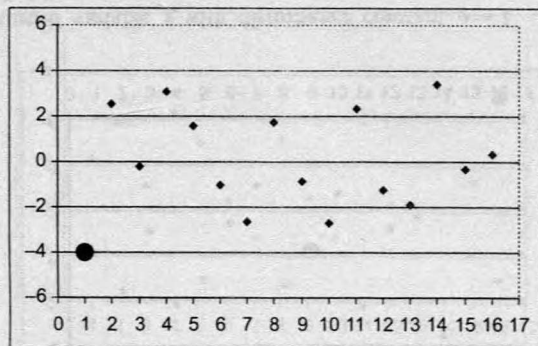
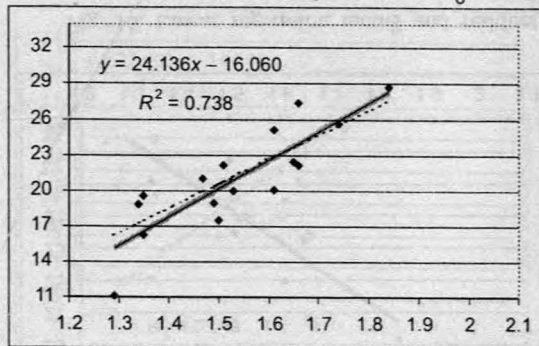


Fig. 13. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -5$  in comparison with LS method

obs 1  $a = -1$   $x = 1.29$   $y = 15.1$   $x_0 = 1.631$

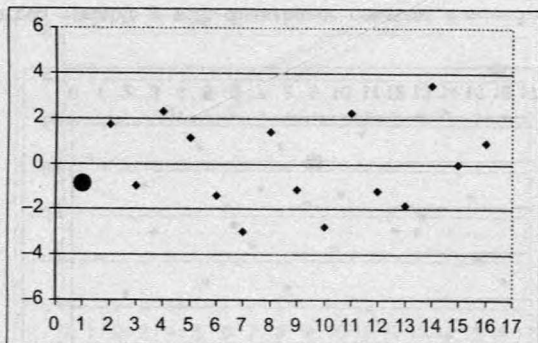
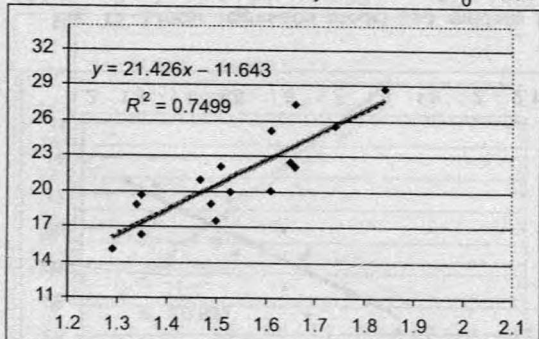


Fig. 14. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -1$  in comparison with LS method

obs 9  $a = -3$   $x = 1.53$   $y = 17$   $x_0 = 4.623$

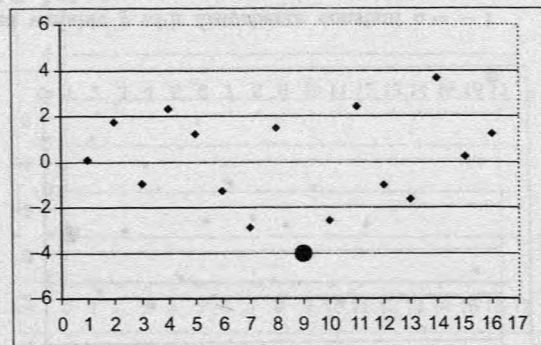
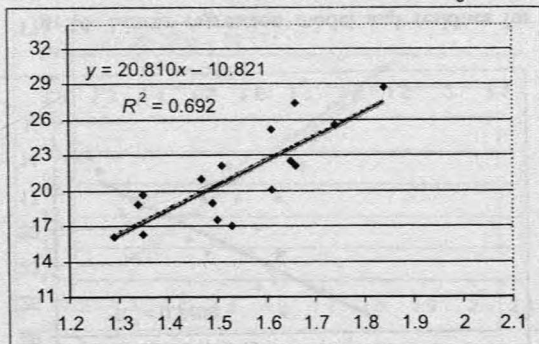


Fig. 15. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = -3$  in comparison with LS method

obs 9  $a = 1$   $x = 1.53$   $y = 21$   $x_0 = 4.476$

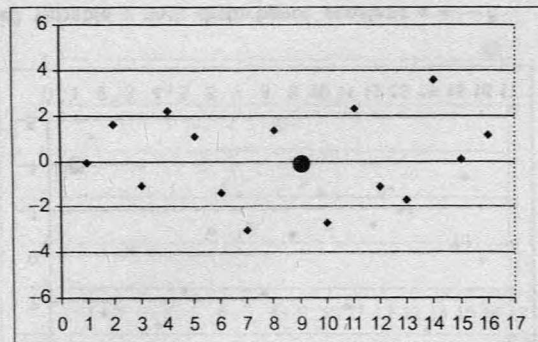
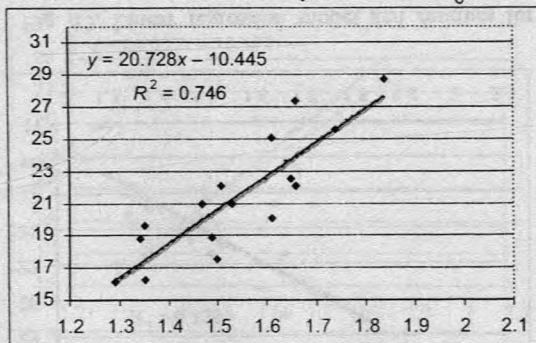


Fig. 16. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 1$  in comparison with LS method



obs 16  $a = 3$   $x = 1.84$   $y = 31.7$   $x_0 = 1.4622$

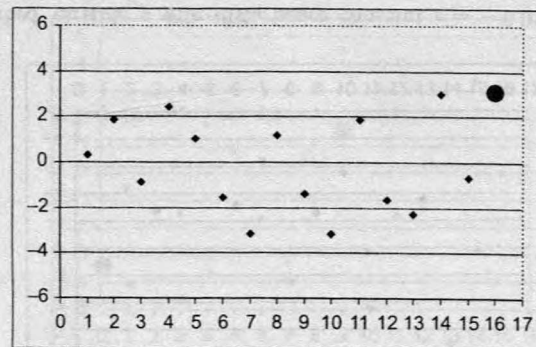
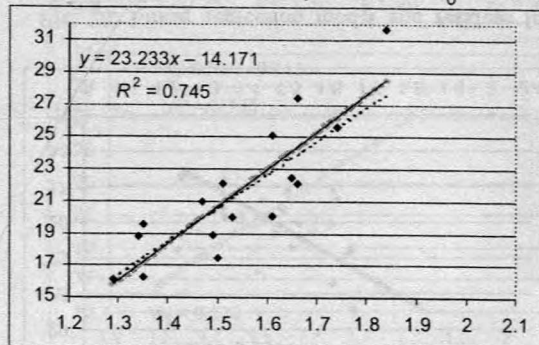


Fig. 17. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 3$  in comparison with LS method

obs 16  $a = 5$   $x = 1.84$   $y = 33.7$   $x_0 = 1.4621$

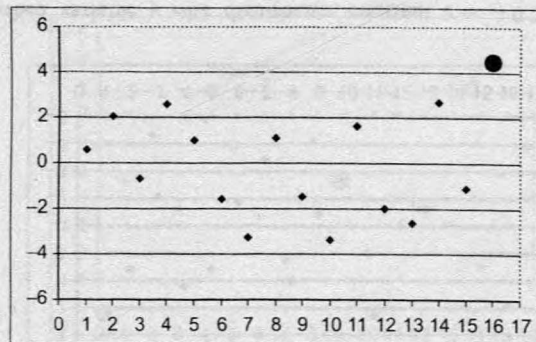
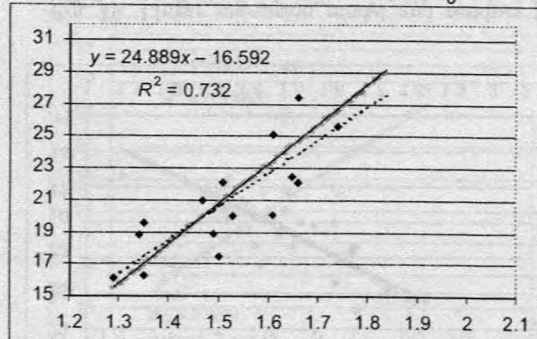


Fig. 18. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $a = 5$  in comparison with LS method

obs 1  $c = -0.2$   $x = 1.09$   $y = 16.1$   $x_0 = 1.598$

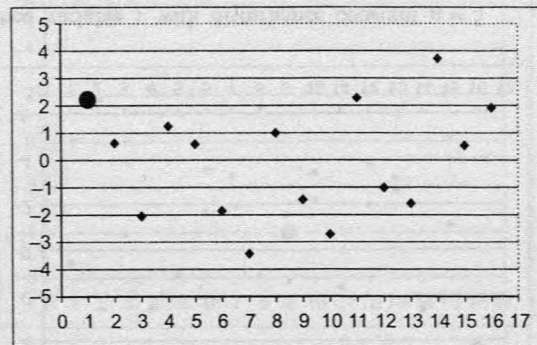
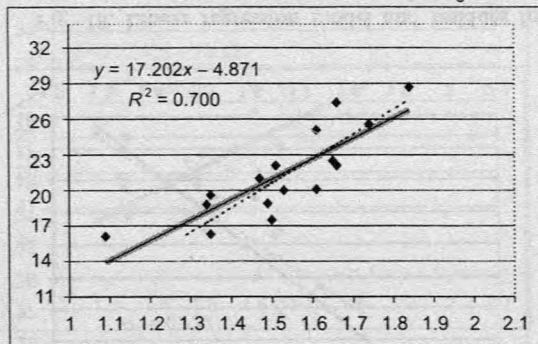


Fig. 19. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = -0.2$  in comparison with LS method

obs 1  $c = -0.05$   $x = 1.24$   $y = 16.1$   $x_0 = 1.620$

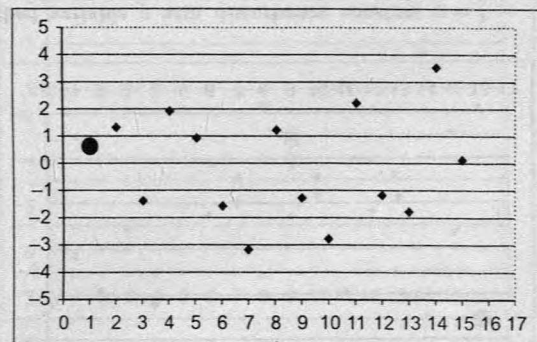
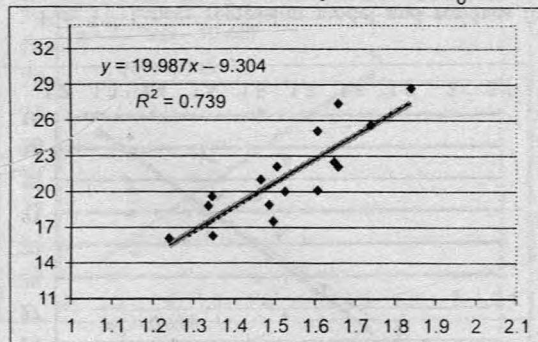


Fig. 20. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = -0.05$  in comparison with LS method

obs 9  $c = -0.15$   $x = 1.38$   $y = 20$   $x_0 = 1.798$

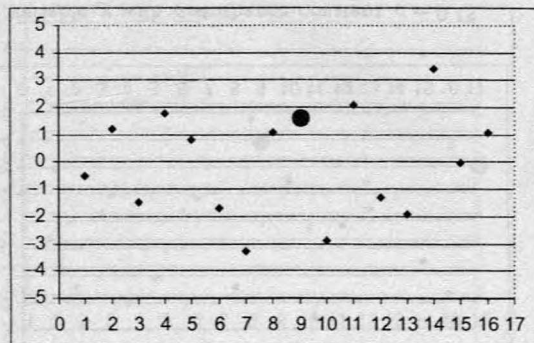
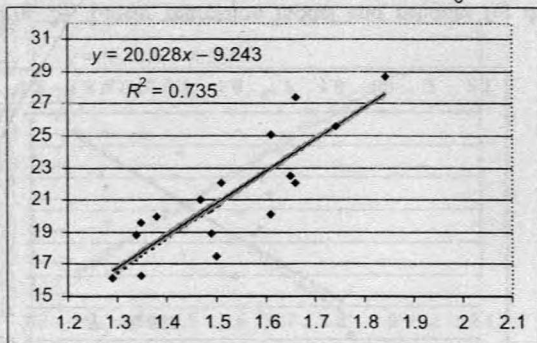


Fig. 21. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = -0.15$  in comparison with LS method

obs 9  $c = -0.05$   $x = 1.48$   $y = 20$   $x_0 = 4.900$

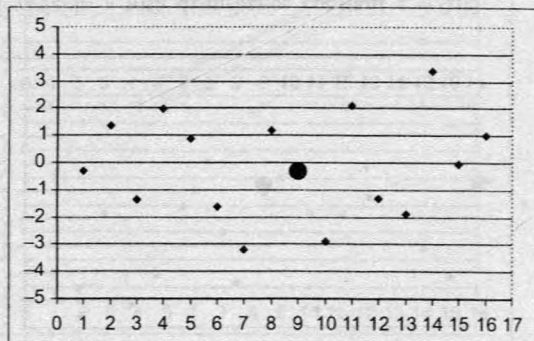
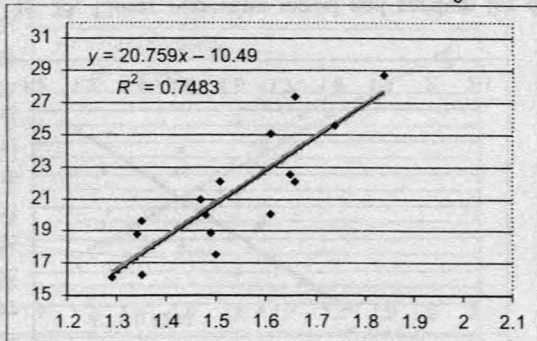


Fig. 22. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = -0.05$  in comparison with LS method

obs 9  $c = 0.05$   $x = 1.58$   $y = 20$   $x_0 = 1.304$

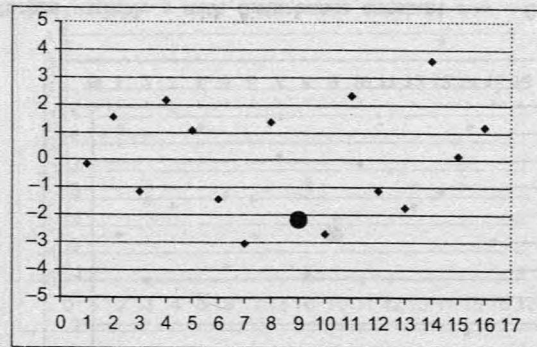
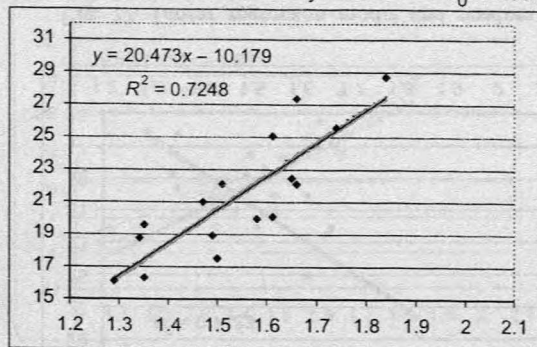


Fig. 23. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = 0.05$  in comparison with LS method

obs 9  $c = 0.15$   $x = 1.68$   $y = 20$   $x_0 = 1.421$

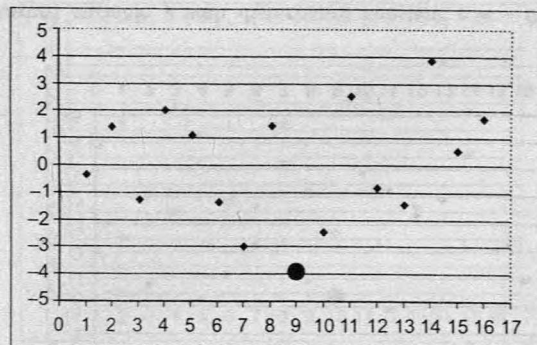
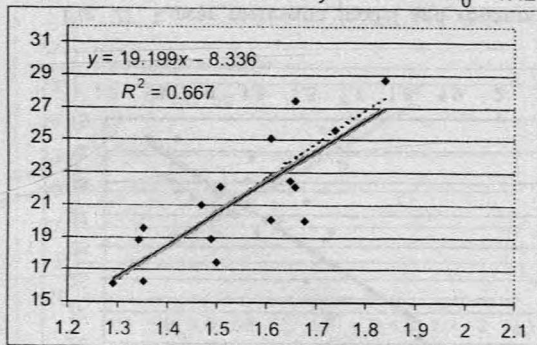


Fig. 24. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = 0.15$  in comparison with LS method

obs 16  $c = 0.1$   $x = 1.94$   $y = 28.7$   $x_0 = 1.465$

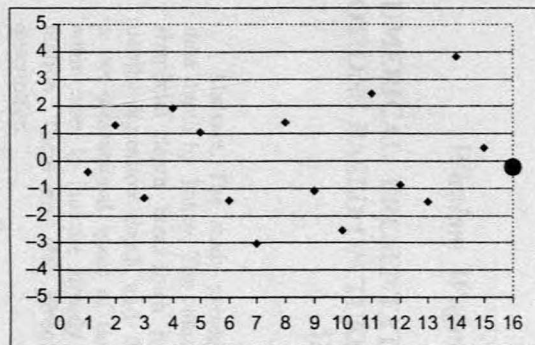
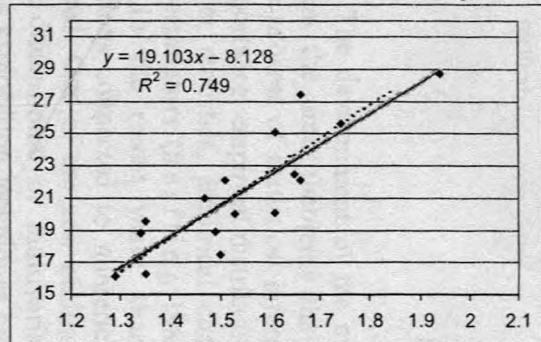


Fig. 25. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = 0.1$  in comparison with LS method

obs 16  $c = 0.2$   $x = 2.04$   $y = 28.7$   $x_0 = 1.475$

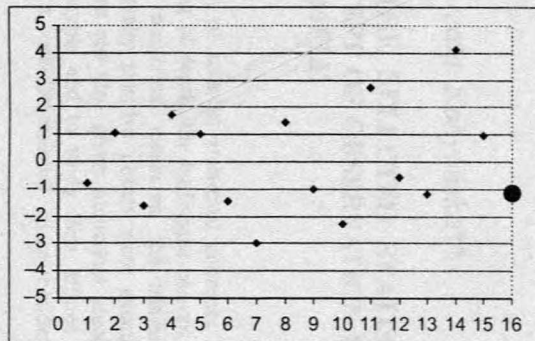
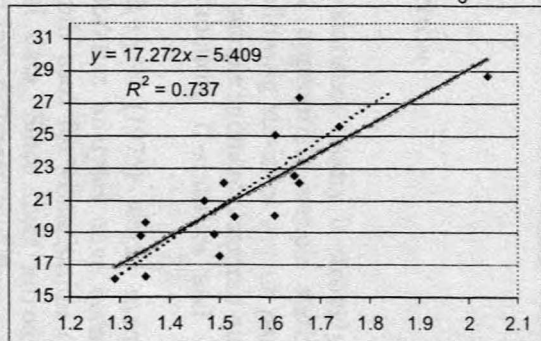


Fig. 26. Linear regression model and residues for disturbed variable  $y$  with disturbance constant  $c = 0.2$  in comparison with LS method