

## Úlohy

40.  $(x^2 + y^2)y' = 2xy$
41.  $x^2y' + xy = 2y^2$
42.  $x^2y' = y^2 + 2xy$
43.  $xy' = y(1 + \ln \frac{y}{x})$
44.  $xy + x^2 = x^2y'$
45.  $2xyy' + x^2 - y^2 = 0$
46. (zpracovano DP)  $xyy' = y^2 - x^2$
47.  $xy' = x - y$
48.  $xy' = y - x$
49.  $xy' = -(x + y)$
50.  $x^2y' = y(x - y)$
51.  $2xyy' = x^2 + y^2$
52.  $xy' = y + \sqrt{x^2 + y^2}$
53.  $2xyy' = 3y^2 - x^2$
54.  $2\sqrt{xy} - y = -xy'$
55. \*  $y^2 + x^2y' = xyy'$
56. \*  $(x^2 - y^2)y' = 2xy$
57. \*  $(4y^2 + 3xy + x^2)y' = -(y^2 + 3xy + 4x^2)$
58. \*  $(y^2 - 3x^2)y' + 2xy = 0$
59. \*  $xy' = \frac{x^2+y^2}{x+y}$   $xy' = \frac{x^2+y^2}{x+y}$
60. \*  $x + 2y + yy' = 0$
61. \*  $(x^3 + y^3)y' = x^2y$
62. \*  $y' = \frac{y-2x}{x+2y}$
63. \*  $y' = \frac{x+2y}{x}$
64. \*  $y' = \frac{y}{x} \cos(\ln \frac{y}{x})$
65. \*  $y' = \frac{y+\sqrt{xy}}{x}$
66. \*  $xy' = y + \sqrt{x^2 - y^2}$