1. 
$$(y-x^3) dx + (x+y^3) dy = 0$$

3.

ц.

5.

$$(y^2 e^{xy^2} + 4x^3) dx + (\partial xy e^{xy^2} - 3y^2) dy = 0$$

$$(x^2 + y^2 - a^2)x dx + (x^2 - y^2 - b^2)y dy = 0$$

$$y' = \frac{y - 3x}{3y - x} ; y(1) = 3$$

$$3x^{2}ydx + (y^{4} - x^{3})dy = 0$$

$$xdy = (x^5 + x^3y^2 + y)dx$$

8. 
$$(y^3 x^3 + 1) dx + x^4 y^2 dy = 0$$

9. 
$$2xy dy - (x^2 + y^2 + 1) dx = 0$$

16. 
$$(3\alpha y - 2\alpha y^2)dx + (\alpha^2 - 2\alpha xy)dy = 0$$

11. 
$$y^2 dx + (x^2 - xy - y^2) dy = 0$$

12. 
$$(y-x)dx + (y+x)dy = 0$$

13. 
$$(xy^3 + y) dx + 2(x^2y^2 + x + y^4) dy = 0$$

14. 
$$y(x+y+1) dx + x(x+3y+9) dy = 0$$

15. 
$$y(xy + 2x^2y^2)dx + x(xy - x^2y^2)dy = 0$$

16. 
$$y = (1+xy) dx + (1-xy) x dy = 0$$

17. 
$$(8y dx + 8x dy) + x^2y^3 (4y dx + 5x dy) = 0$$

18. 
$$x^3y^3(2ydx+xdy)-(5ydx+7xdy)=0$$

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