

$$(14.6.5) \quad y^2 - 2x - 2y - 5 = 0$$

$$(y^2 - 2y + 1) - 2x - 6 = 0$$

$$(y-1)^2 = 2(x-3) \text{ - параболa с центром } (3,1) \text{ и } p=1$$

$$(17.6.6) \quad 3x^2 + 5y^2 + 12x - 30y + 42 = 0$$

$$3(x^2 + 4x + 4) + 5(y^2 - 6y + 9) - 15 = 0$$

$$3(x+2)^2 + 5(y-3)^2 = 15$$

$$\frac{(x+2)^2}{5} + \frac{(y-3)^2}{3} = 1 \text{ - эллипс с центром } (-2,3) \text{ и } a=\sqrt{5}, b=\sqrt{3}$$

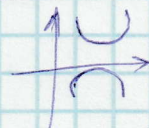
$$(17.6.7) \quad 2x^2 - y^2 + 6y - 7 = 0$$

$$2x^2 - (y^2 - 6y + 9) + 2 = 0$$

$$2x^2 - (y-3)^2 = -2$$

$$x^2 - \frac{(y-3)^2}{2} = -1$$

$$-\frac{x^2}{1} + \frac{(y-3)^2}{2} = 1 \text{ - гиперболa с центром } (0,3) \text{ и } a=1, b=\sqrt{2}$$



$$(17.6.8) \quad 2x^2 - 3y^2 - 28x - 42y - 55 = 0$$

$$2(x^2 - 14x + 49) - 3(y^2 + 14y + 49) - 6 = 0$$

$$2(x-7)^2 - 3(y+7)^2 = 6$$

$$\frac{(x-7)^2}{3} - \frac{(y+7)^2}{2} = 1 \text{ - гиперболa с центром } (7,-7) \text{ и } a=\sqrt{3}, b=\sqrt{2}$$

