

$$3140. u = \sqrt{(x^2 + y^2 - 1)(4 - x^2 - y^2)}.$$

$$3141. u = \sqrt{\frac{x^2 + y^2 - x}{2x - x^2 - y^2}}.$$

$$3142. u = \sqrt{1 - (x^2 + y^2)}.$$

$$3143. u = \ln(-x - y).$$

$$3144. u = \arcsin \frac{y}{x}.$$

$$3145. u = \arccos \frac{x}{x + y}.$$

$$3146. u = \arcsin \frac{x}{y^2} + \arcsin(1 - y).$$

$$3147. u = \sqrt{\sin(x^2 + y^2)}.$$

$$3148. u = \arccos \frac{z}{\sqrt{x^2 + y^2}}.$$

$$3149. u = \ln(xyz). \quad 3150. u = \ln(-1 - x^2 - y^2 + z^2).$$

Построить линии уровня следующих функций:

$$3151. z = x + y. \quad 3152. z = x^2 + y^2.$$

$$3153. z = x^2 - y^2. \quad 3154. z = (x + y)^2.$$

$$3155. z = \frac{y}{x}. \quad 3156. z = \frac{1}{x^2 + 2y^2}.$$

$$3157. z = \sqrt{xy}. \quad 3158. z = |x| + y.$$

$$3159. z = |x| + |y| - |x + y|.$$

$$3159.1. z = \min(x, y). \quad 3159.2. z = \max(|x|, |y|).$$

$$3159.3. z = \min(x^2, y). \quad 3160. z = e^{2x/x^2 + y^2}.$$

$$3161. z = x^y \ (x > 0). \quad 3162. z = x^y e^{-x} \ (x > 0).$$

$$3163. z = \ln \sqrt{\frac{(x - a)^2 + y^2}{(x + a)^2 + y^2}} \quad (a > 0).$$

$$3164. z = \operatorname{arctg} \frac{2ay}{x^2 + y^2 - a^2} \quad (a > 0).$$

$$3165. z = \operatorname{sgn}(\sin x \sin y).$$

Найти поверхности уровня следующих функций:

$$3166. u = x + y + z. \quad 3167. u = x^2 + y^2 + z^2.$$

$$3168. u = x^2 + y^2 - z^2. \quad 3169. u = (x + y)^2 + z^2.$$

$$3170. u = \operatorname{sgn} \sin(x^2 + y^2 + z^2).$$