## UNIVERSITA' di PARMA - INGEGNERIA GESTIONALE ANALISI MATEMATICA 2 - SCHEDA N.9

## SOLIDI

1) Diseprate rello spazio i sepuenti iuniemi (canche le proiezio ui dell'iunieme sui 3 piani coordinati): E1={(x,y,Z) & R3: -2 < E < 6+ \( 64-x^2-y^2 \), y < 0 }  $E_2 = \{(x_1 y_1 = 2) \in \mathbb{R}^3 : -2 - \sqrt{16 - x_y^2} \le x \le 9 - \frac{11}{2} \sqrt{x_+^2 y^2}, y \le 0, x \le 7\}$  $E_{3} = \left\{ (x_{13} + 2) \in \mathbb{R}^{3} : -7 + \frac{3}{2} \sqrt{x_{+}^{2}y^{2}} \le z \le 8 - \frac{1}{6} (x_{+}^{2}y^{2}), x \le 0, y \le 0, z > -4 \right\}$ E4= {(x,y,=) \in 12, 10+\frac{1}{10}(x^2+y^2) \le \frac{1}{2}+\sqrt{100-x^2-y^2}, x>0, y \le 0} E= {(x,y,Z) < R3: 1/(x2+y2) < x < 3+ \( X^2+y^2 \) < x < 0, y < 0} E6= (x,y,x) ER3: 05x612- 4 (x+y2, 96x+y2, 1960)  $E_7 = \{(x_1y_1 \neq 1) \in \mathbb{R}^3: -6 + \frac{3}{8}(x_1^2 + y_1^2) \leq \chi \leq 10 - \sqrt{x_1^2 + y_1^2}, x > 0\}$ E8 = 1 (x,y,=) ER3: 12x2+2y2-2 < 2 < 52,0 < x < y, 270}  $E_g = \{(x_1 y_1 \neq ) \in \mathbb{R}^3 : -\sqrt{g-x^2-y^2} \leq \chi \leq 8-2\sqrt{x_1^2+y^2}, \chi \leq 5, y > 0 \}$ En= (x13,7) ER3: 06x6-1/3x+3,06y610, x>0}  $E_{11} = \left\{ (x, y, 2) \in \mathbb{R}^3 : 2x \le y \le x + 1, \times > 0, 0 \le z \le 3 - (x + y) \right\}$  $E_{12} = \{ (x,y,z) \in \mathbb{R}^3 : y^2 + (z-4)^2 \le 4, -4 \le x \le 10, y \le 0, z > 4 \}$