16.
$$2(x-1)+9(y-9)-6(z+6)=0$$

$$20. (1,0,0) \times (1,1,9) = (0,-9,1)$$

12. (1)
$$\frac{1}{-2} = \frac{-2}{4} = \frac{3}{6} \neq \frac{0}{6}$$

(2)
$$C = -6$$
 $D = -3$

$$5. (1) \frac{\pi}{3} = \frac{9}{1} = \frac{2+1}{2}$$

(2)
$$\vec{AB} = (0, 1, 4)$$

$$\frac{\chi_{-1}}{0} = \frac{y}{1} = \frac{\chi_{+1}}{4}$$

(3)
$$\frac{\chi-2}{-1} = \frac{y-3}{3} = \frac{2+5}{4}$$

(4)
$$(1,1,1) \times (0,1,-1) = (-2,1,1)$$

$$\frac{x-3}{-2} = \frac{y-1}{1} = \frac{z-2}{1}$$

$$27.$$
 (1) $(3,1,2) \times (1,0,2) = (2,-4,-1)$

(1)
$$(2,1,1) \times (2,3,-1) = (-4,4,4)$$

