

12.6

12 $x + 9y - 5z = 16$

#16 a) parallel b) perpendicular c) neither

#18 a) Do not intersect b) $(11/14, -23/14, 8/7)$

#22 $y + 2z = 10$

#24 $x + 2y - z = 10$

#30 $3x - 5y - 2z = -5$

#32 Line is parallel to the plane

#42 $9/7$

#46 $\sqrt{6}$

#48 $(2/3, -1/6, 7/6)$