

# 12  $x = t, y = 3 - 2t$

#18  $x = t, y = t, z = 0$

#20  $\pm(4,3)$

#24  $(5/4, 9/4, 1/2)$

#32 Yes

#44  $4 \frac{\sqrt{10}}{\sqrt{11}}$

#52  $x = 2 + 3t, y = 7t, z = 3 + t$