## Math 220 Assignment

## September 14, 2001

## Assignment for Friday, September 21

1. Prepare for a short quiz.
2. Let $R(s, t)$ be the function from $\mathbf{R}^{2}$ to $\mathbf{R}^{3}$ defined by

$$
R(s, t)=(s+2 t,-2 s-t,-2 s+2 t)
$$

(a) Find equation(s) that characterize the set $S$ of all points $(x, y, z)$ in $\mathbf{R}^{3}$ that arise as $R(s, t)$ for at least one pair $(s, t)$.
(b) What kind of subset of $\mathbf{R}^{3}$ is $S$ ?

Document network location for HTML:

