MATH 1500
Section 6.5 HW Solutions: 3, 5, 7, 12, 14
3.

5. $0.30 \times 0.75+0.60 \times 0.10=0.285$
7. $0.10+0.30 \times 0.05+0.60 \times 0.30=0.295$
12. a. $\operatorname{Pr}($ white $)=\frac{6}{8}=\frac{3}{4}=0.75$
b. $\operatorname{Pr}($ red and white $)=\frac{2}{8} \cdot \frac{6}{7}=\frac{3}{14}$
c. $\operatorname{Pr}($ red and red and white $)=\frac{2}{8} \cdot \frac{1}{7} \cdot \frac{6}{6}$

$$
=\frac{1}{28}
$$

14. 


$\operatorname{Pr}($ elev. lead levels $)=$
$0.77 \cdot 0.06+0.23 \cdot 0.11=0.0715$

