$P(H_2) = 1 - y$

H_1 = Elvis has an identical twin.
H_2 = Elvis' twin was not identical

3)

	Prior $P(H)$	$P(D \mid H)$	$P(H) P(D \mid H)$	$P(H \mid D)$
H_1	0.08	1	0.08	0.148
H_2	0.92	0.5	0.46	0.852

The probability that Elvis was an identical twin is 0.148.

6) $H = \{A, B, C\}$ where the car is behind - the door

D	$P(H)$	$P(D \mid H)$	$P(H) P(D \mid H)$	$P(H \mid D)$
A	$\frac{1}{3}$	p	$\frac{p}{3}$	$\frac{p}{p+1}$
B	$\frac{1}{3}$	0	0	0
C	$\frac{1}{3}$	1	$\frac{1}{3}$	$\frac{1}{p+1}$

$= \frac{p+1}{3}$

$$P(H_A \mid D) = \frac{\frac{p}{3}}{\frac{p+1}{3}} = \frac{p}{p+1}$$

$$P(H_B \mid D) = \frac{\frac{1}{3}}{\frac{p+1}{3}} = \frac{1}{p+1}$$

The probability the car is behind Door A is $\frac{p}{p+1}$.