

3. $P(E) = 0.30$ $P(E \text{ or } F) = 0.90$ $P(E \text{ AND } F) = 0.05$
 FIND $P(F)$

$$P(E \text{ or } F) = P(E) + P(F) - P(E \text{ AND } F)$$

$$0.90 = 0.30 + P(F) - 0.05$$

$$0.90 = P(F) + 0.25$$

$$0.90 - 0.25 = P(F)$$

$$\boxed{0.65 = P(F)}$$

4. a) $P(\text{RED}) = \boxed{0.20}$

b) $P(\text{RED or BLUE}) = 0.20 + 0.30 = \boxed{0.50}$

c) $P(\text{NOT YELLOW}) = 1 - P(\text{YELLOW})$

$$= 1 - 0.40$$

$$= \boxed{0.60}$$

5.

AGE	HOURS	PROB
20-29	35	$35/135 = 0.2593$
30-39	70	$70/135 = 0.5185$
40-49	20	$20/135 = 0.1481$
50-59	<u>10</u>	$10/135 = 0.0741$
	135	

a) $P(20-29) = \boxed{0.2593}$

b) $P(40 \text{ or greater})$
 $= 0.1481 + 0.0741$
 $= \boxed{.2222}$