3.3.3 & 3.3.4.

(a)
$$P = 1016 / 6549 = 0.1551$$

(b)
$$p = 2.16 / 2115 = 0.1021$$

(d)
$$P = 2480 / 6549 = 0.3)8$$

(e)
$$P = (526 + 2)4 + 216 + 1954)/6549 = 0.4530$$

or $P = (2480 + 1016 - 526) = 0.4530$

3.5.) & 3.5.8

(a) IP
$$(7 \ge 3) = 0.04) + 0.004 = 0.05$$
.

(b) IP
$$(Y \le 1) = 0.316 + 0.422 = 0.)39$$

(c)
$$|P(Y \ge 1) = 1 - |P(Y \le 0)$$

$$= 1 - 6.316 = 0.684$$

(4)
$$My = 0 \times 0.316 + 1 \times 0.455 + 2 \times 0.511$$

3.6.4 (a)
$$p = \binom{20}{20} \cdot (0.9)^{20} = (0.9)^{20} = 0.1216$$

(b) $p = \binom{20}{19} \cdot (0.9)^{19} \cdot (0.1)$
 $= 0.2 \cdot 0.2$

(c) $p = \binom{20}{13} \cdot (0.9)^{16} \cdot (0.1)^2$
 $= 0.2851$

(d) $p = 0.2851$