

Homework # 6 (Chapter 4)
STAT 110/ A1, C1, E1, M1

Review Exercises (page 229)

4. (a) $\frac{1}{6}$

(b) $\frac{1}{2}$

(c) $\frac{1}{3}$

16. (a) $\frac{57}{104}$

(b) $\frac{10}{13}$

(c) $\frac{3}{4}$

24.

$$\begin{aligned} P(\text{at least one does not wear a helmet}) &= 1 - P(\text{none do not wear a helmet}) \\ &= 1 - (0.23)^4 \\ &= 0.997 \end{aligned}$$

28. $(0.3)^5 = 0.002$