## Homework \#5

ST 554

## Mixed Distributions

a. Let $X \in \mathbb{R}$ have the cdf $F$. Find the cdf of $X^{+}=\max \{0, X\}$.
b. Find and sketch the cdf for $X \sim \operatorname{Unif}(-2,4)$.
c. If $X \sim \operatorname{Unif}(-2,4)$, what is $P\left(X^{+}=0\right)$ and $P\left(X^{+}=1\right)$.

## Blitzstein \& Hwang: Chapter 5

$1,4,5,6,8,10,11,14,18,21,24,26$

## Extra problems: Chapter 5 (optional)

- solved: $12,16,32,33,34,36$
- interest: $25,27,28,30$

