ALUNO: fotos Redro Menezes silva TURMA: Éngenharia revil

Sumana 7 - Exercício 4

8 B (Bolas Brancas) + \$2 para cada Proteada 4 P (Bolas Pretas). -\$1 para cada B sorteada 212 (Bolar Lowerjon)

X = " gon ho vom na vietviouda vole e bolar da wina "

 $\Omega = \frac{1}{100} \left( \frac{1}{100} \right), \left( \frac{1}$ (L,L)]. -> rada uunto ule mento ule mentar a)  $\times \in \{-2, -1, 0, 1, 2, 4\}$ . Vi,  $1 \le i \le 9$ .

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b) TOTAL. DE BOLAS = 14

$$P(W_4) = \frac{8}{14} \cdot \frac{1}{13} = \frac{38}{91} \cdot \frac{1}{13}$$
 $P(W_4) = \frac{1}{14} \cdot \frac{1}{13} = \frac{36}{91}$ 
 $P(W_5) = \frac{8}{14} \cdot \frac{4}{13} = \frac{36}{91}$ 
 $P(W_4) = \frac{4}{14} \cdot \frac{1}{13} = \frac{36}{91}$ 
 $P(W_6) = \frac{4}{14} \cdot \frac{3}{13} = \frac{6}{91}$ 
 $P(W_6) = \frac{4}{14} \cdot \frac{3}{13} = \frac{4}{91}$ 
 $P(W_6) = \frac{4}{14} \cdot \frac{3}{13} = \frac{8}{91}$ 
 $P(W_6) = \frac{4}{14} \cdot \frac{4}{13} = \frac{4}{91}$ 
 $P(X = -1) = P(W_3) + P(W_7) = \frac{7}{91} + \frac{7}{91} = \frac{7}{91}$ 
 $P(X = 0) = P(W_6) + P(W_7) = \frac{4}{91} + \frac{4}{91} = \frac{32}{91}$ 
 $P(X = 1) = P(W_6) + P(W_7) = \frac{4}{91} + \frac{4}{91} = \frac{7}{91}$ 

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$$\frac{4}{13}, \text{ M. } X = -2$$

$$\frac{16}{91}, \text{ Ne. } X = -1$$

$$\frac{1}{91}, \text{ Ne. } X = 0$$

$$\frac{32}{91}, \text{ Ne. } X = 1$$

$$\frac{8}{91}, \text{ Ne. } X = 2$$

$$0, \text{ rano rontrains}$$

$$\frac{4}{13}, \text{ Ne} - 2 \leq x \leq -1$$

$$\frac{4}{13}, \text{ Ne} - 2 \leq x \leq -1$$

$$\frac{44}{91}, \text{ Ne} - 1 \leq x \leq 0$$

$$\frac{45}{91}, \text{ Ne} 0 \leq x \leq 1$$

$$\frac{11}{13}, \text{ Ne} 1 \leq x \leq 2$$

$$1, \text{ Ne} x \geq 2$$



