ALUND: João Pudro Minizer Silva TURMA: Eongenharia viiil Sumana 11. Exercício 1 X~Geo (0,75) → p∈ (0,1) FDP: P(X=K) = P(1-p)KP(X=R)=0,75(1-0,75)K $P(X = 12) = 0.45 \cdot (0.25)^{K}, R = 0.1.2...$ (x - 4) = 0 $\frac{P(X=4) = 0.75 \cdot (0.25)^{4}}{P(X=4) \approx 0.002930}$ b) P(X24)=? $P(X < R) = 1 - (1 - p)^{R}$ $P(XZ4) = 1 - (0,25)^4$ P(XC4) = 0,996094 c) $P(X \le 4) = P(X < 4) + P(X = 4)$ P(X < 4) = 9996094 + 9,00 2930 1 P(X = 4) = 0,999024

d)
$$P(6 \le x \angle 9) = P(x \angle 9) - P(x \angle 6)$$
 $P(6 \le x \angle 9) = 1 - (1 - 0.75)^{9} - 1 - (1 - 0.75)^{6}$
 $P(6 \le x \angle 9) \ge 0.9999996 - 0.99976$
 $P(6 \le x \angle 9) \ge 0.000136$
 $P(6 \le x \angle 9) \ge 0.000136$
 $P(6 \le x \angle 9) \ge 0.000136$
 $P(8 \ge x \angle 9) \ge 0.000136$
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