PROBABILITY: UNIONS, INTERSECTIONS, COMPLEMENTS [PIRNOT 13.2]

EX 13.2.1: Two fair 3-sided dice are rolled. Each die has the numbers 1,2,3 on its faces.

(a) Find the probability that die 1 does not show 2.

(b) Find the probability that die 1 shows 2 or die 2 shows 3.

(c) Find the probability that neither die 1 shows 3 nor die 2 shows 2.

(d) Are events "die 1 shows 2" and "die 2 shows 3" mutually exclusive?

(e) Are events "die 1 shows 1" and "die 1 shows 2" mutually exclusive?

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