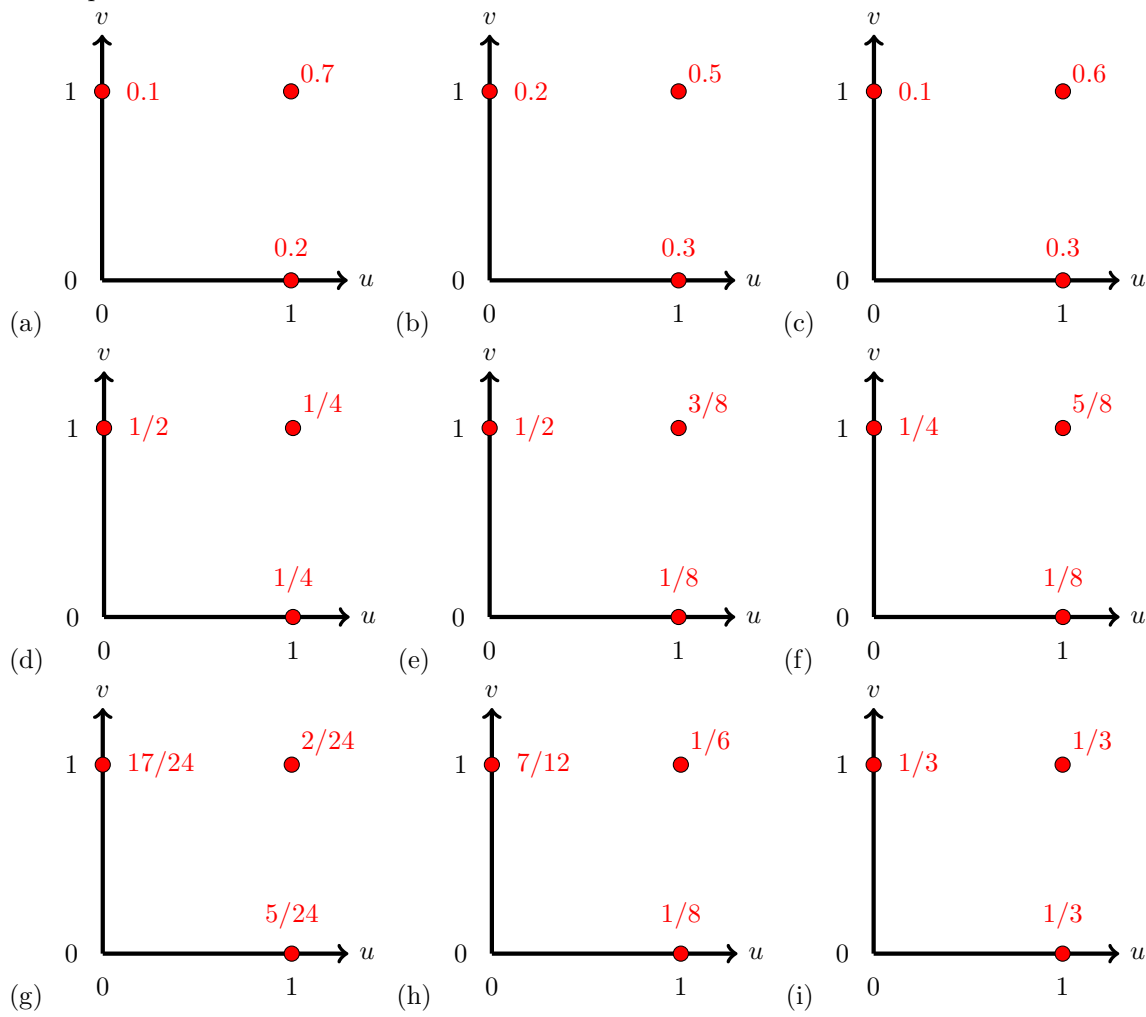For which of the following joint probability mass functions $p_{X,Y}(u,v)$ are random variables X and Y independent?

(a)

v axis, u axis.
- $(0,1)$: 0.1
- $(1,1)$: 0.7
- $(1,0)$: 0.2

(b)
- $(0,1)$: 0.2
- $(1,1)$: 0.5
- $(1,0)$: 0.3

(c)
- $(0,1)$: 0.1
- $(1,1)$: 0.6
- $(1,0)$: 0.3

(d)
- $(0,1)$: $1/2$
- $(1,1)$: $1/4$
- $(1,0)$: $1/4$

(e)
- $(0,1)$: $1/2$
- $(1,1)$: $3/8$
- $(1,0)$: $1/8$

(f)
- $(0,1)$: $1/4$
- $(1,1)$: $5/8$
- $(1,0)$: $1/8$

(g)
- $(0,1)$: $17/24$
- $(1,1)$: $2/24$
- $(1,0)$: $5/24$

(h)
- $(0,1)$: $7/12$
- $(1,1)$: $1/6$
- $(1,0)$: $1/8$

(i)
- $(0,1)$: $1/3$
- $(1,1)$: $1/3$
- $(1,0)$: $1/3$

(a) None of these

(b) (a)

(c) (b)

(d) (c)

(e) (d)

(f) (e)

(g) (f)

(h) (g)

(i) (h)

(j) (i)

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