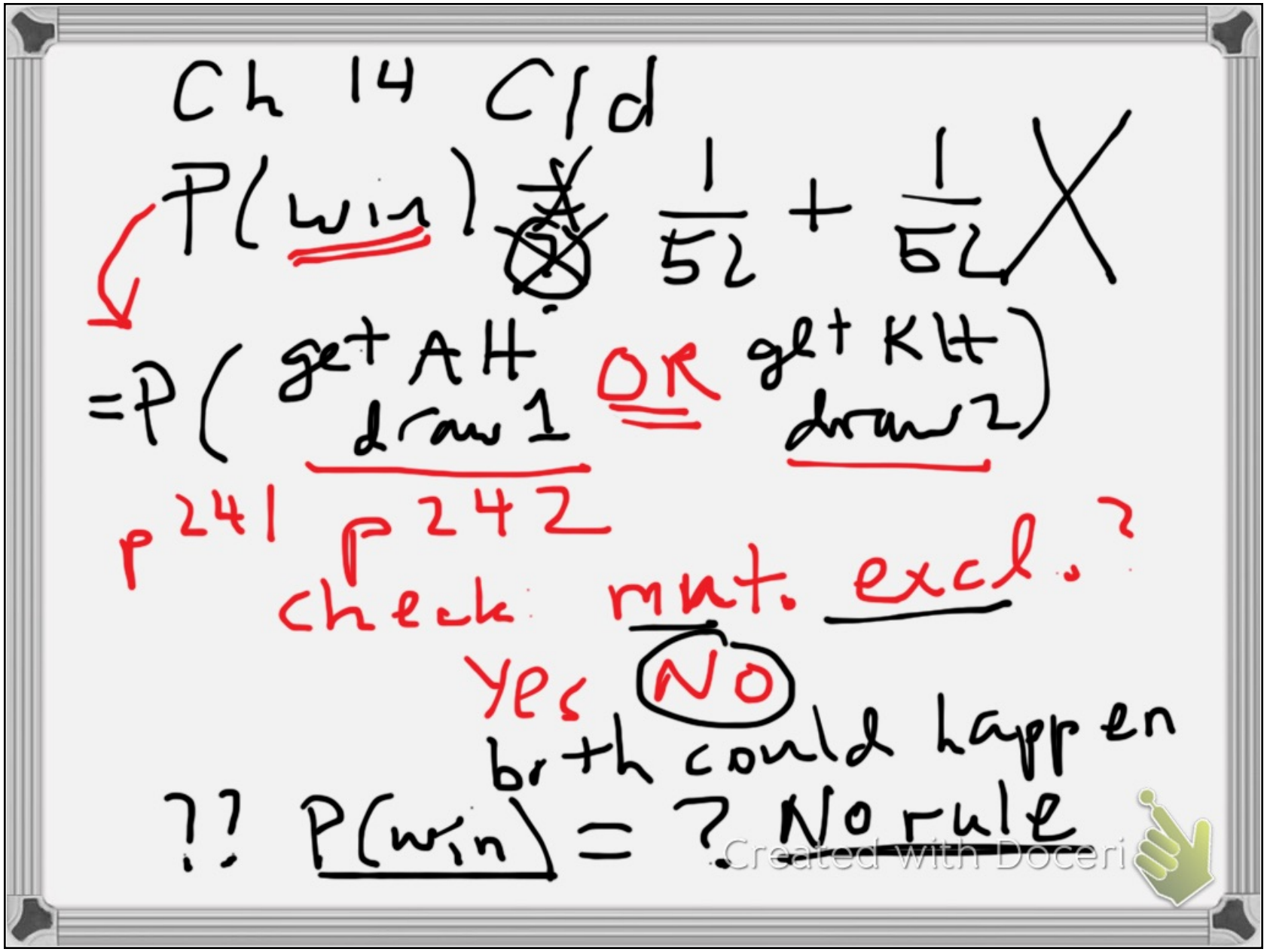
Ch 14 C/d
P(win) $\frac{1}{52} + \frac{1}{52}$
=P(get AH draw 1 OR get KH draw 2)
p^{241} p^{242}
check mut. excl.?
yes NO
both could happen
?! P(win) = ? No rule
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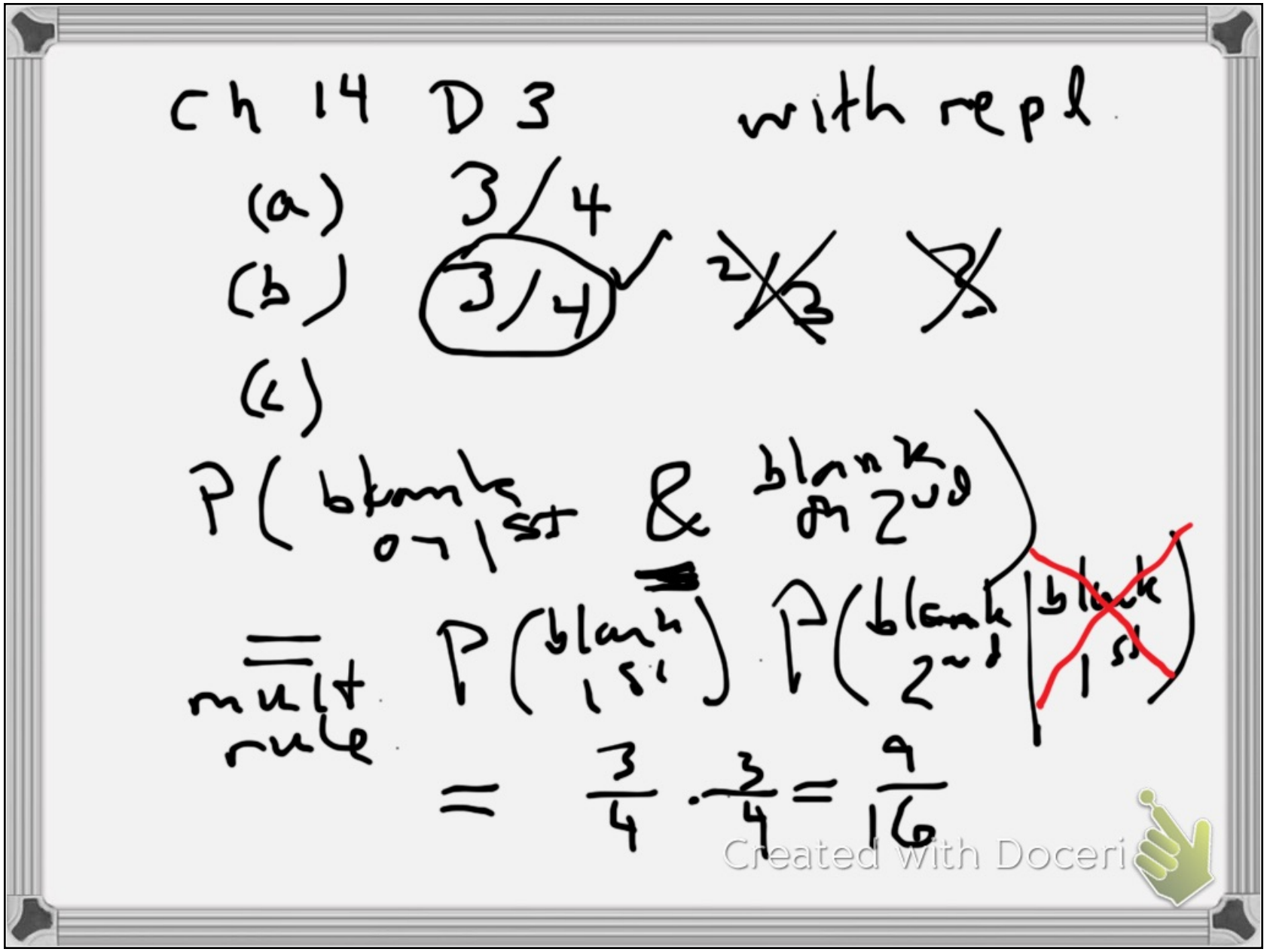
Ch 14 D 3 with repl.
(a) 3/4
(b) 3/4
(c)
mult rule
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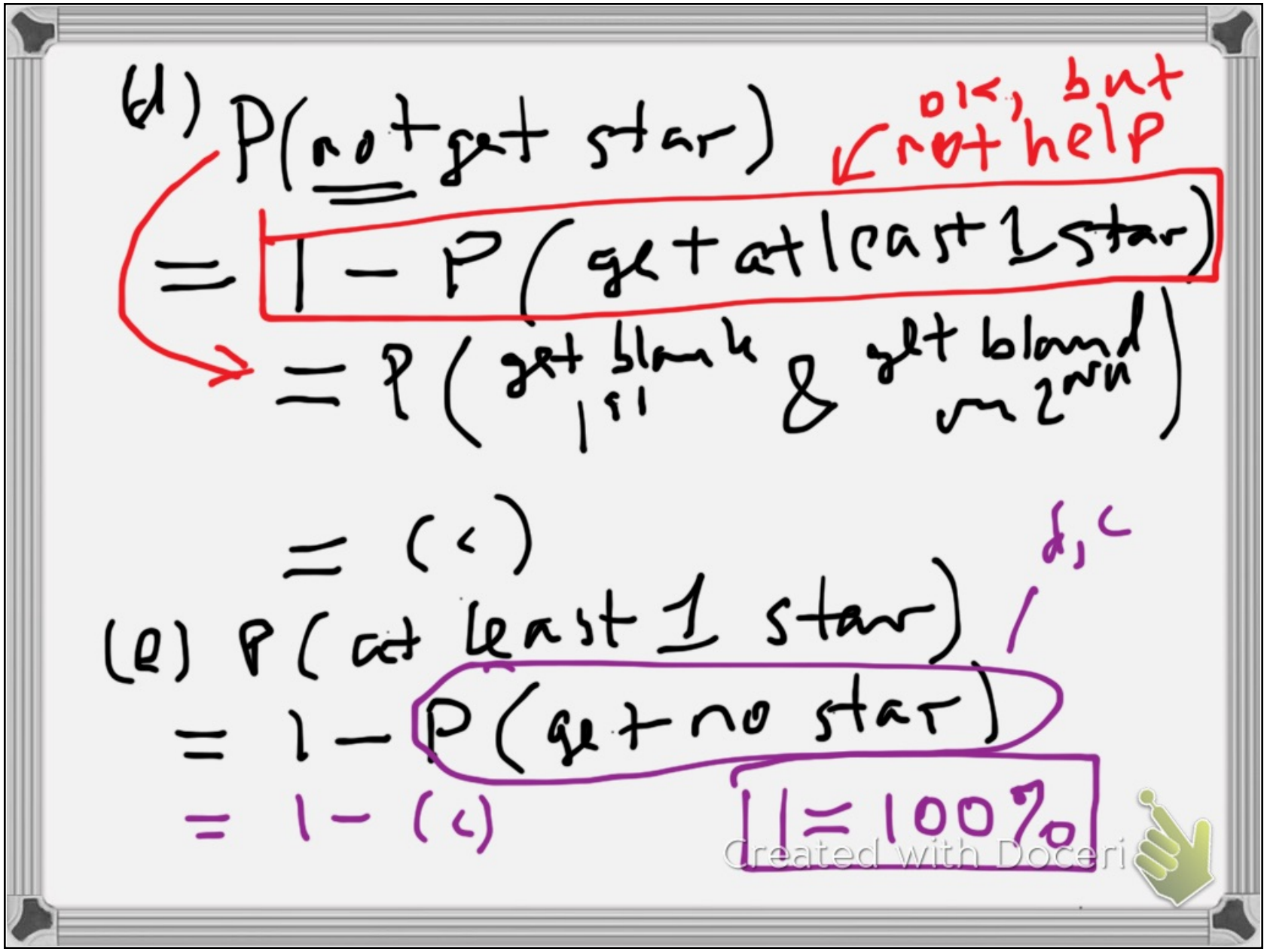
(d) P(not get star)
ok, but not help
= 1 − P(get at least 1 star)
= P(get blank 1st & get blank on 2nd)
= (c)
(e) P(at least 1 star)
d, c
= 1 − P(get no star)
= 1 − (c)
= 100%
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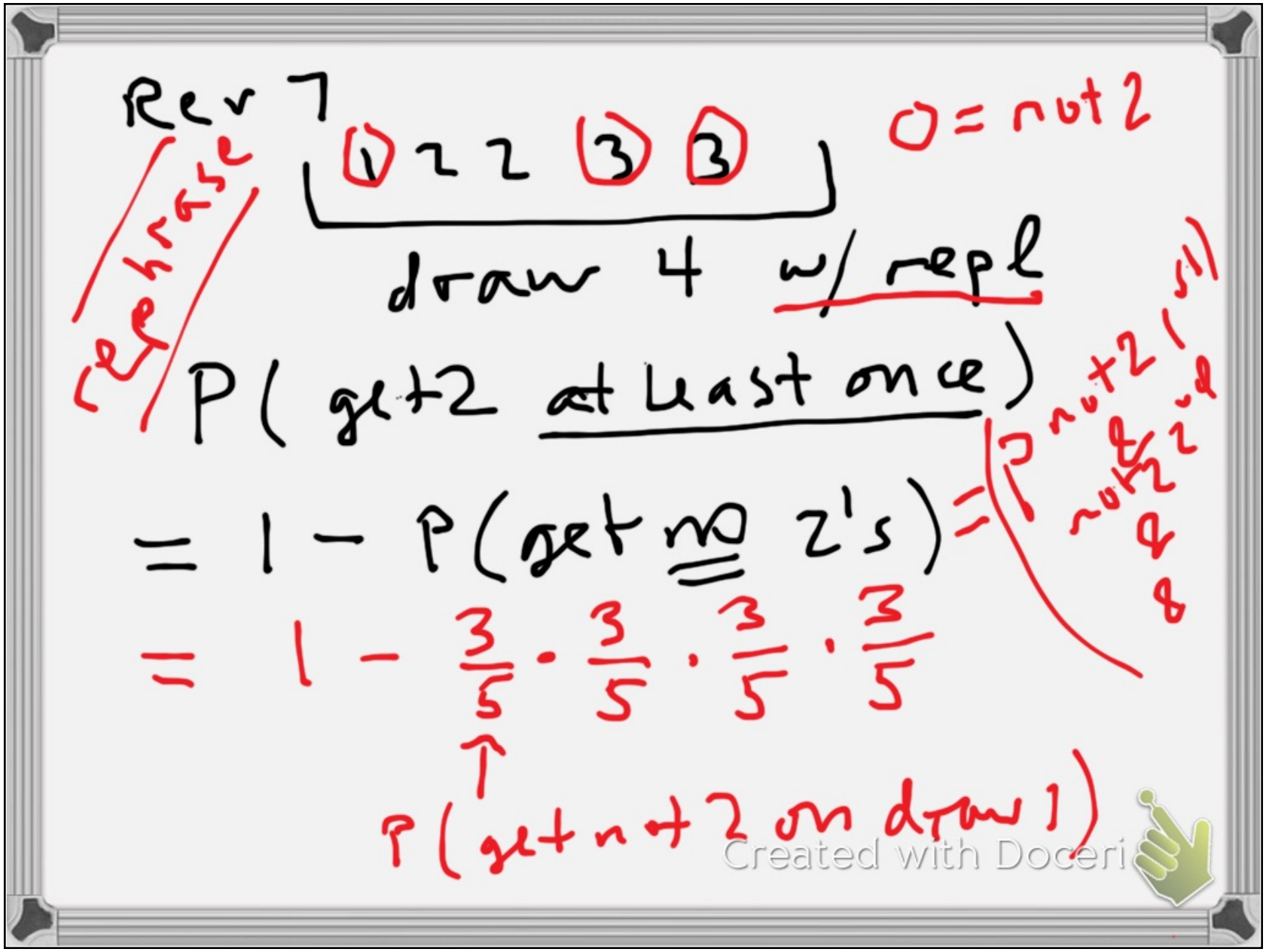
Rev 7
rephrase
1 2 2 3 3
draw 4 w/ repl
P(get 2 at least once)
= 1 − P(get no 2's)
= 1 − 3/5 · 3/5 · 3/5 · 3/5
P(get not 2 on draw 1)
0 = not 2
not 2 (1)
not 2 2nd
8
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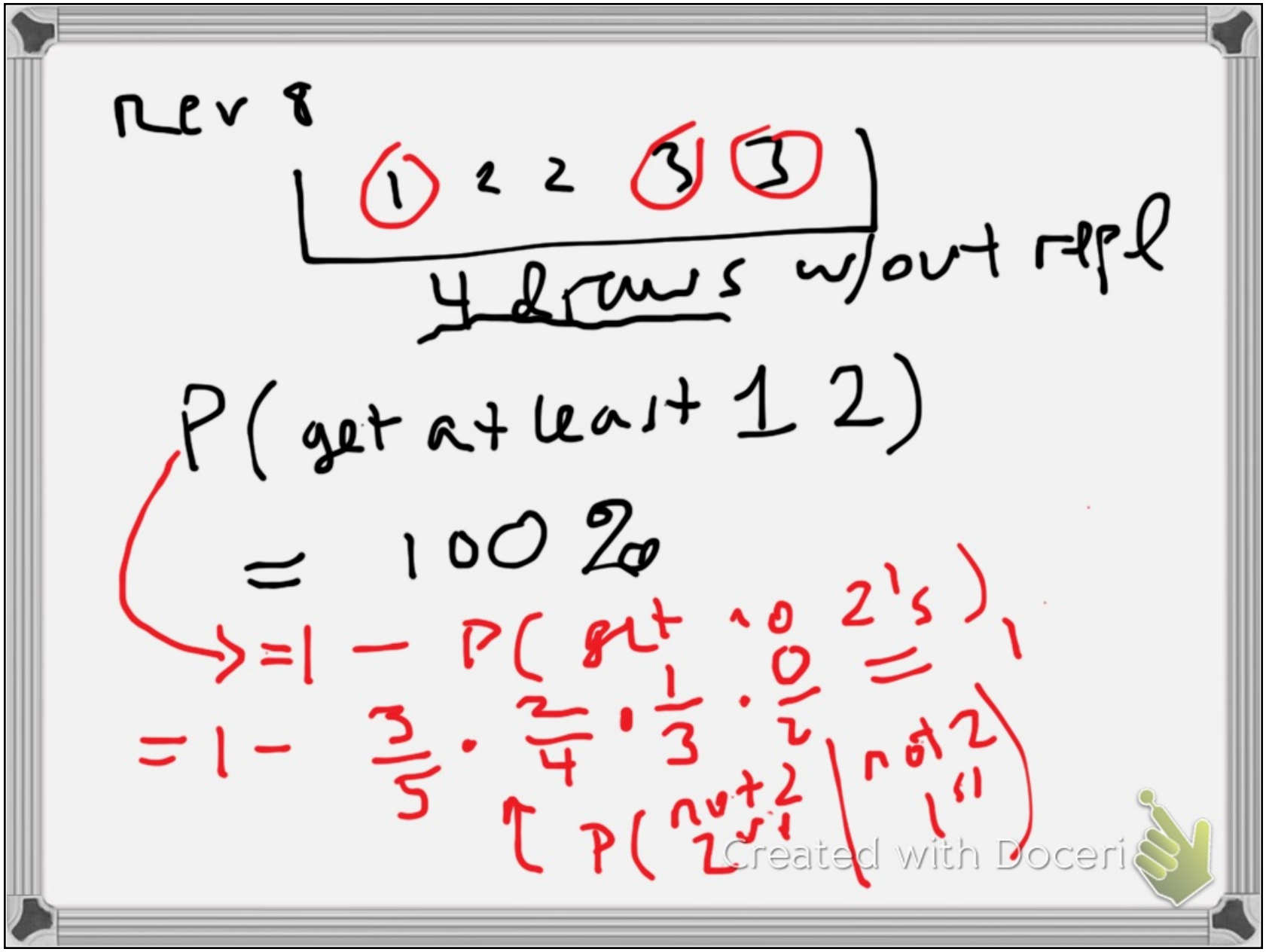
rev 8
1 2 2 3 3
4 draws w/out rpl
P(get at least 1 2)
= 100 %
=1 − P(get no 2's)
=1 − 3/5 · 2/4 · 1/3 · 0/2
P(not 2 | not 2 in 1st 2 draws)
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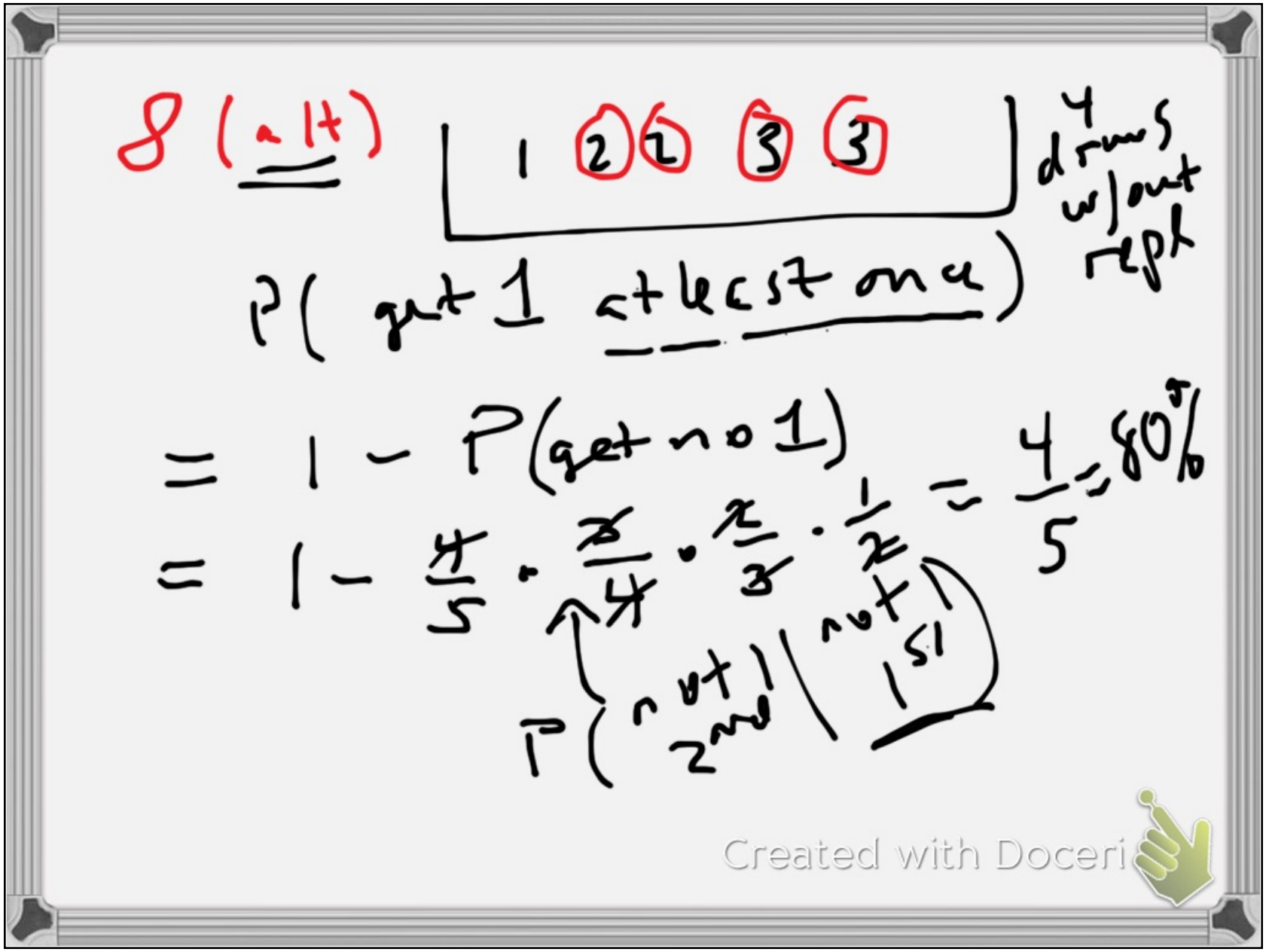
8 (alt)
1 2 2 3 3
4 draws w/out repl
P(get 1 atleast once)
= 1 − P(get no 1)
= 1 − 4/5 · 3/4 · 2/3 · 1/2 = 4/5 = 80%
P(not 1 2nd | not 1 1st)
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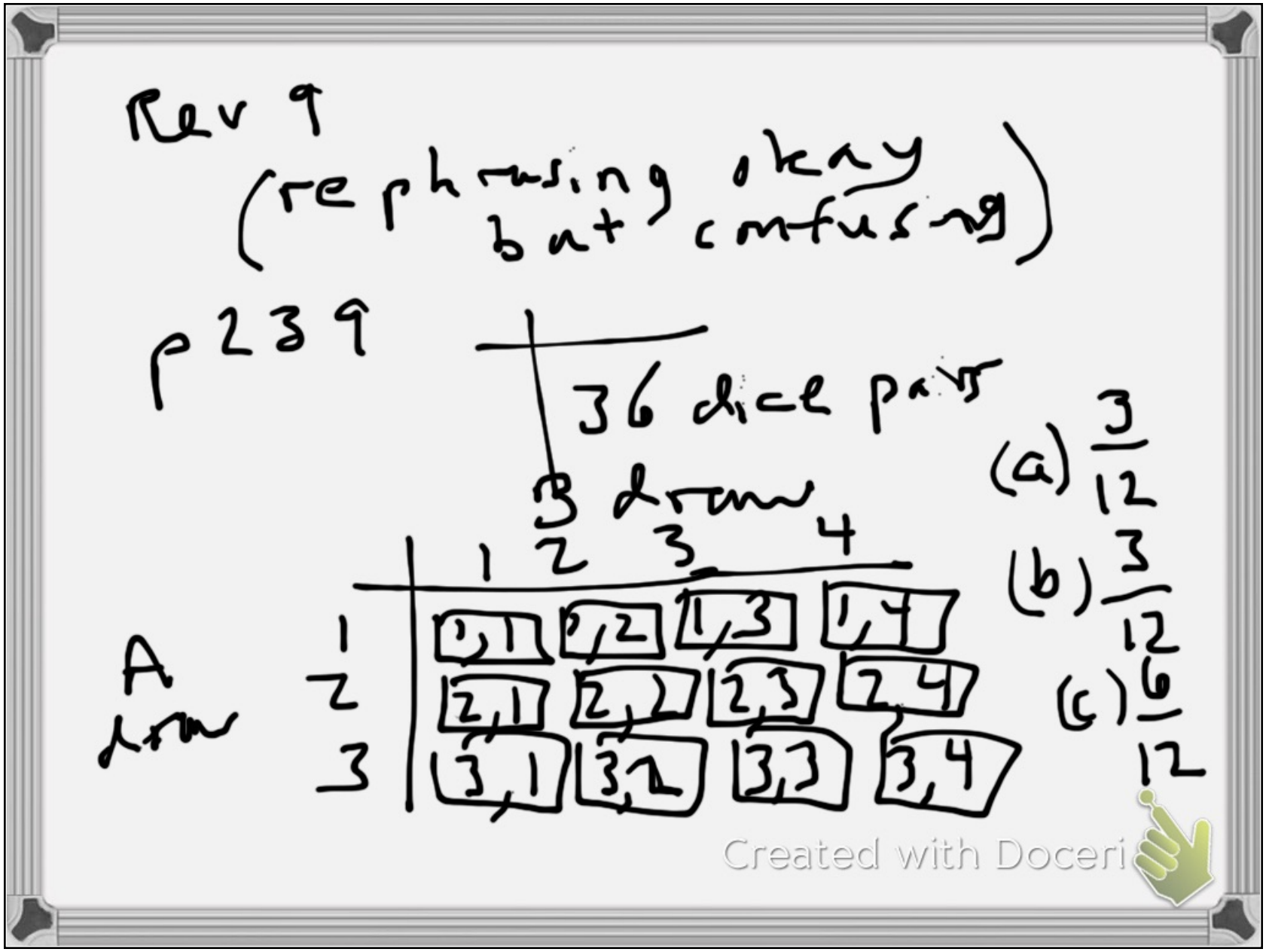
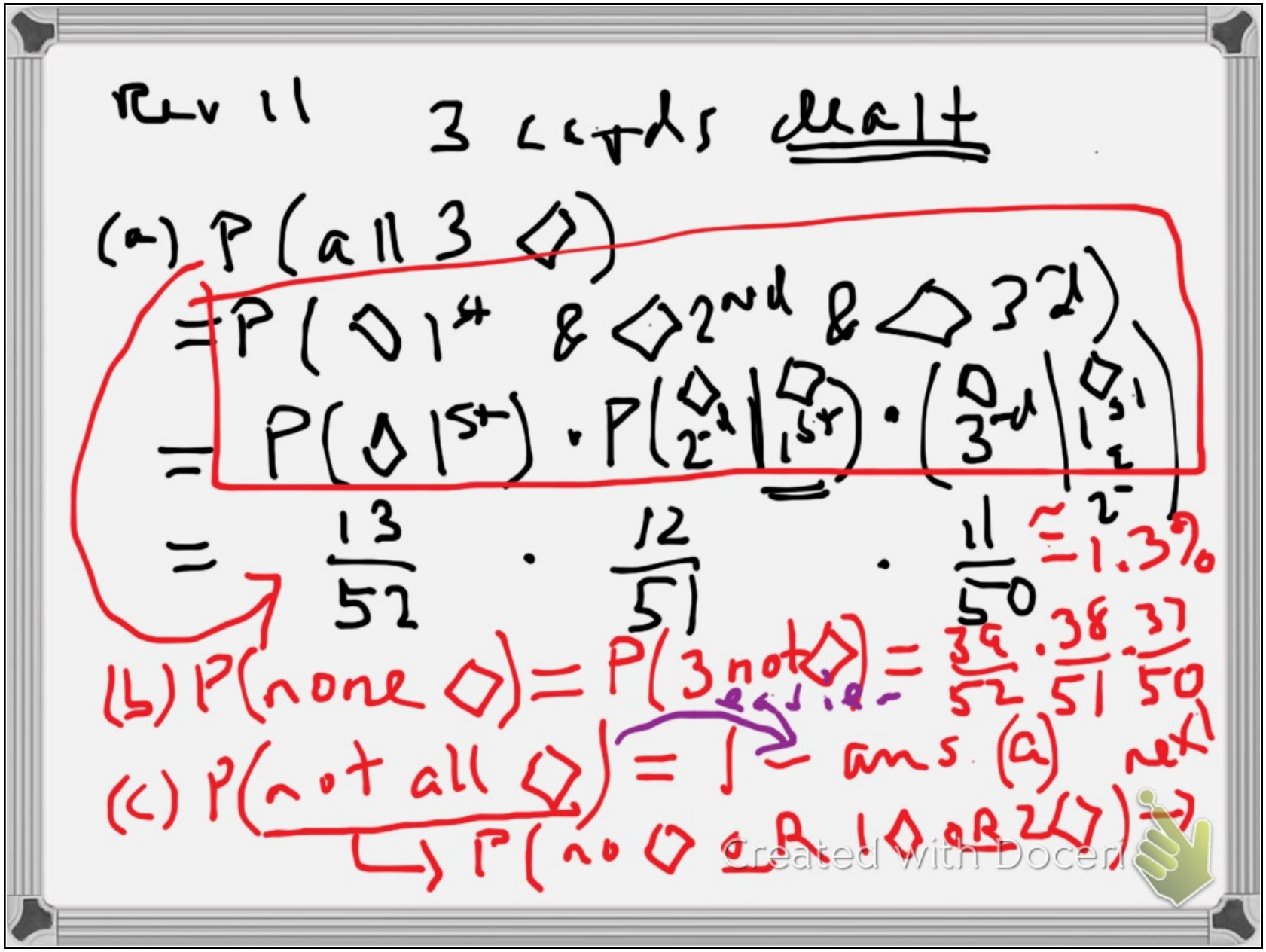

Rev 9
(rephrasing okay but confusing)
p239
36 dice pairs
3 draw
(a) 3/12
(b) 3/12
(c) 6/12
A draw
1 2 3 4
1 (1,1) (1,2) (1,3) (1,4)
2 (2,1) (2,2) (2,3) (2,4)
3 (3,1) (3,2) (3,3) (3,4)
Created with Doceri


Rev 11 3 cards dealt
(a) P(all 3 ♢)
= P(♢ 1st & ♢ 2nd & ♢ 3rd)
= P(♢ 1st) · P(♢ 2nd | ♢ 1st) · (♢ 3rd | ♢ 1st & ♢ 2nd)
= 13/52 · 12/51 · 11/50 ≈ 1.3%
(b) P(none ♢) = P(3 not ♢) = 39/52 · 38/51 · 37/50
(c) P(not all ♢) = 1 − ans (a)
↳ P(not ♢ or R 1 ♢ or R 2 ♢)
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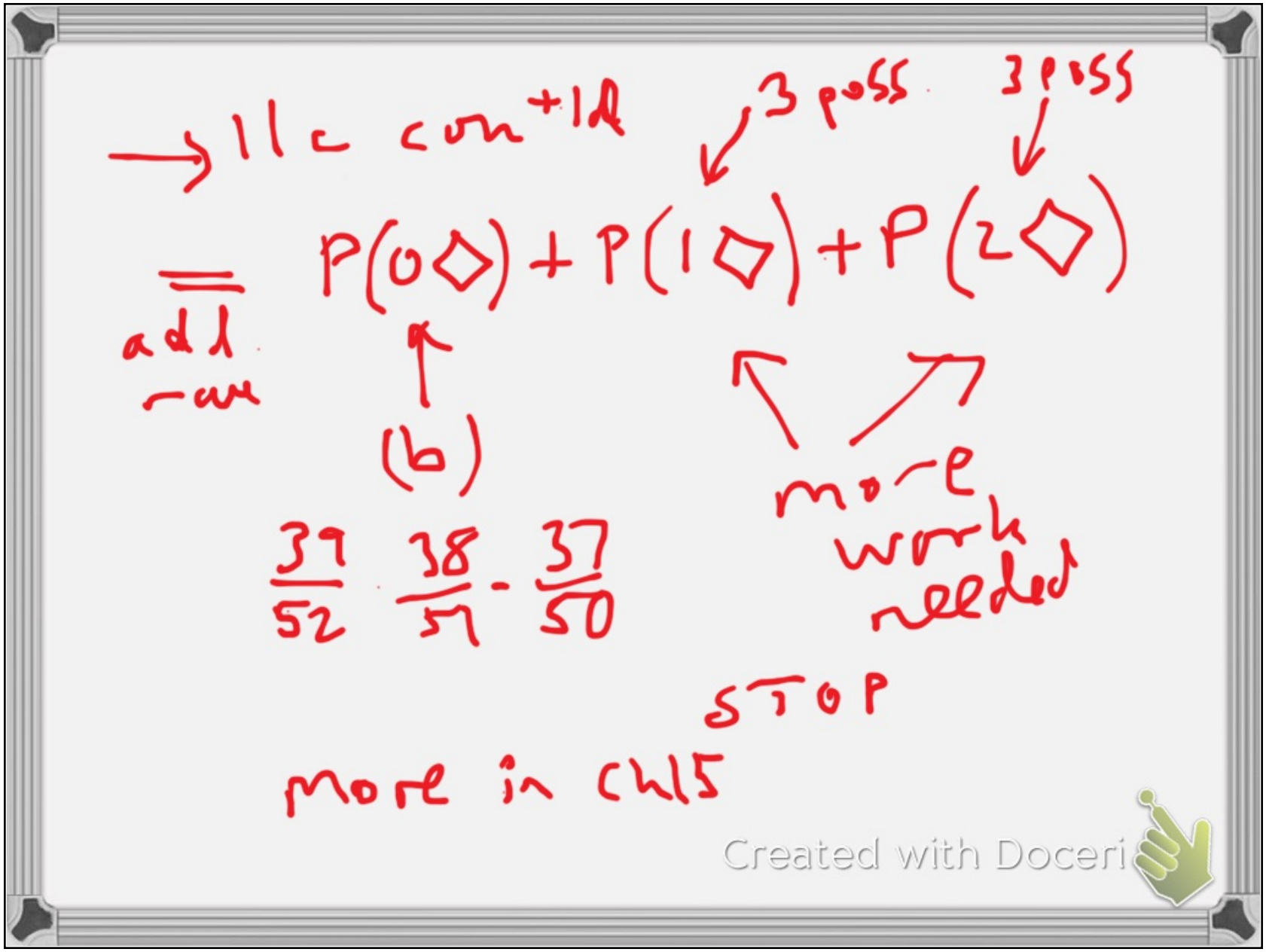
→ 11 c com+1d
3 poss
3 poss
P(0◇) + P(1◇) + P(2◇)
= add -ve
(b)
more work needed
39/52 38/51 · 37/50
STOP
More in Ch15
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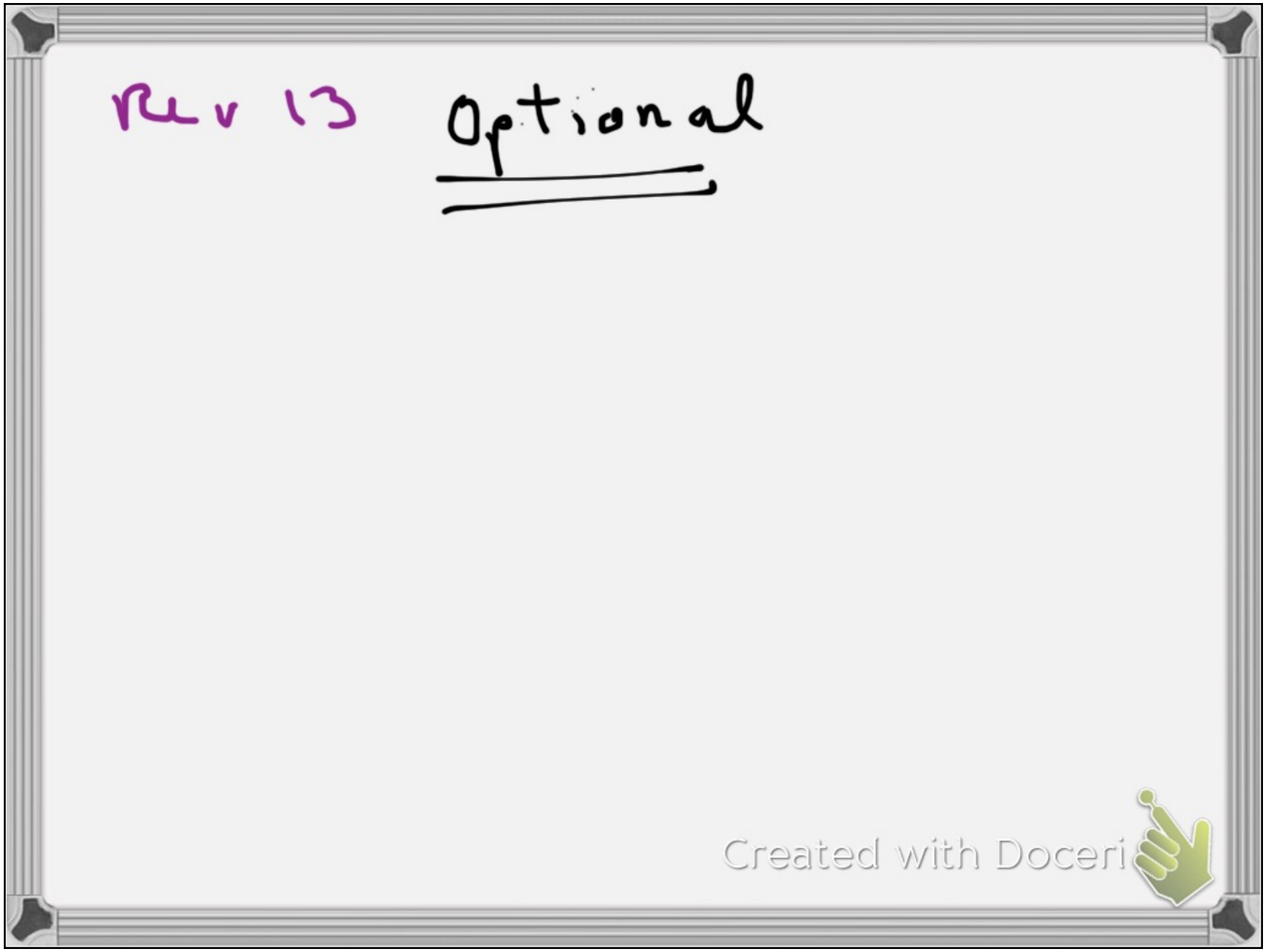
Rev 13
Optional
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