Introduction to פרק שביעי: חלון

At the end of the previous פרק, we dealt with the relationship between various types of adjoining חצרות, this chapter will first continue that exploration to identify which barriers separate חצרות. The second half of the chapter will focus on the method of שיתופי מבואות.

3.7.1

76a (תחילת הפרק) → 76b (אינו צריך)

Note: in rabbinic geometry, π is 3 (as opposed to 3.14...); hence the circumference of a circle will be d3; the diagonal of any square will be 1.4 of the side (as opposed to 1.414...); an enscribed circle will be $\frac{3}{4}$ of the area of the circumscribed square (as opposed to $\frac{\pi}{4}$).

- I. משנה א': Connecting 2 חצרות via a window in the wall that divides them
 - a.lf: if the window is 'י שפחים and within עירובין of the ground, may unite or create independent עירובין
 - b. But if: the window is less than "ד" or above י' טפחים must make independent עירובין
 - i. Authorship: proposal that our אשב"ג follows רבנן (contra רבנן) who measures ד"ט זה לבוד 1.Rejection: even רבנן agree that 4*4 is needed for a "significant place" although they only allow x<3 for לבוד
 - ii. *Implication*: of 1st clause is that if less than 4x4, invalid why the need for the 2nd clause?
 - 1. Justification: necessary to teach that even if part is within י' טפחים, still valid and they may join
- II. טפחים a round window must be 24 טפחים in circumference and have 2+ within י"ט so that if squared, a part is within
 - a. Challenge: should only need circumference of 12 (per note)
 - i. Answer: that equation is only for ratios within a circle; we need to fit the circle within a square
 - ii. Challenge: should be 16 (add 25% for square)
 - 1. Answer: a circumscribed circle requires more
 - 2. Challenge: should require 16.8 (area of circle with diagonal of 5.6 [diagonal of 4x4])
 - a) Answer: קיסרים follows קיסרים a diagonal is 2x the sides and a circle is 1.5 of its enscribed square
 - b) *Therefore*: 16x1.5=24
 - i. Note: see תוספות ד"ה ור' יוחנן (they both reject רמב"ם פ"ג מהלכות עירובין ה"ב והגה"מ שם hand רמב"ם פ"ג מהלכות עירובין ה"ב
- III. Extension and application of rule: does it extend to making עירוב between houses or only חצרות?
 - a. איז only between חצרות do we require "within 10"; between houses, even higher can be joined
 - i. Reason: we consider a house to be "full" \rightarrow there is no "higher than υ "" there
 - ii. Challenge (אברות): ruling that between any of 2 חצרות, 2 houses, 2 lofts, 2 roofs or 2 rooms require 4x4 within מ"ט 1.First defense: ruling relates to חצרות
 - 2. Challenge: the ברייתא uses the phrase אחד לי...ואחד לי, equating them all
 - a) Rather: they are all equal for the requirement of an opening that is ד"ט x ד"ט not for height of י"ט ה א ד"ט not for height of ד"ט א ד"ט
 - b. Related question (posed to 2"): does an opening to a loft need a fixed ladder to connect them
 - i. Analysis: perhaps we only apply the principle that a house is "filled" at its border but not in the middle
 - ii. Answer: it needs no fixed ladder
 - 1. Assumption: he meant that no fixed ladder is needed, but a temporary ladder must be there
 - 2. Rejection: ב"נ: is quoted as explicitly ruling that it doesn't even require a temporary ladder in place