

HW2 Due on Sept 23

1. Let G be the 4-vertex graph consisting of two triangles sharing a common edge. Show that $ex(n, G) = \lfloor n^2/4 \rfloor$ if $n \geq 4$.
2. Let G be the 5-vertex graph consisting of two triangles sharing a common vertex. Show that $ex(n, G) = \lfloor n^2/4 \rfloor + 1$ if $n \geq 5$.