

Quiz 7

MAT 332
Fall 2022

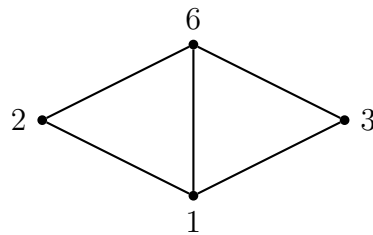
First

Last

UTOR id

- For two vertices u and v in a graph G , what are internally disjoint uv -paths?

- For an integer n , let G be a graph where the vertices are numbers d that divide n and any pair of divisors p and q are connected by an edge if p divides q . Here is the graph for $n = 6$:



Prove that, if n is not a prime number, then for any $p, q \in V(G)$ there are two internally disjoint pq -paths in G .