

Figure 1 shows a graph with nodes n on the x-axis and edges m on the y-axis. The x-axis ranges from 0 to 0.2, and the y-axis ranges from 0 to 0.2. A solid line represents the relationship $m = \frac{n(n-1)}{2}$, which is a parabola starting at (0,0) and increasing. A dashed line represents the relationship $m = n$, which is a straight line starting at (0,0) and increasing. The solid line is above the dashed line for $n > 1$.

