vertex	shortest path	length
v_2	$v_1 \to v_2$	6
v_3	$v_1 \to v_3$	1
v_4	$v_1 \to v_4$	13
v_5	$null$	∞
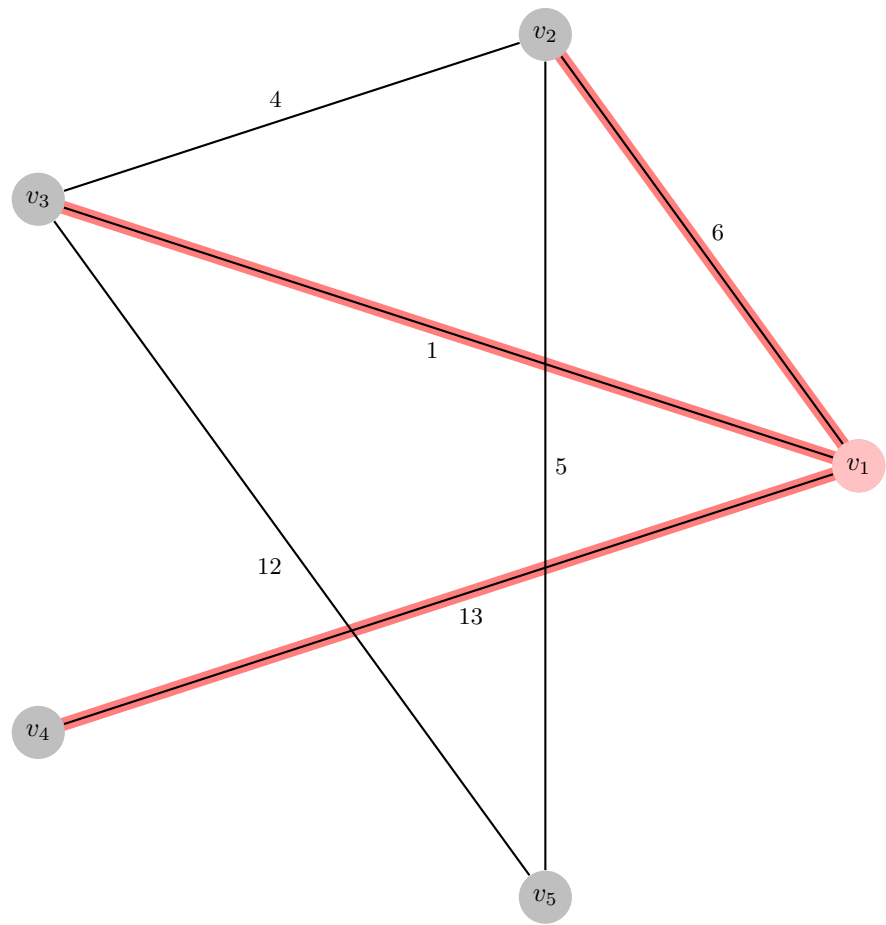
Vertices explored from v_1. Next vertex is v_3. Edge relaxations shown in **bold**.

vertex	shortest path	length
v_2	$v_1 \to v_3 \to v_2$	$5 = \mathbf{min\{6,\ 1+4\}}$
v_3	$v_1 \to v_3$	1
v_4	$v_1 \to v_4$	13
v_5	$v_1 \to v_3 \to v_5$	$13 = \min\{\infty,\ 1+12\}$
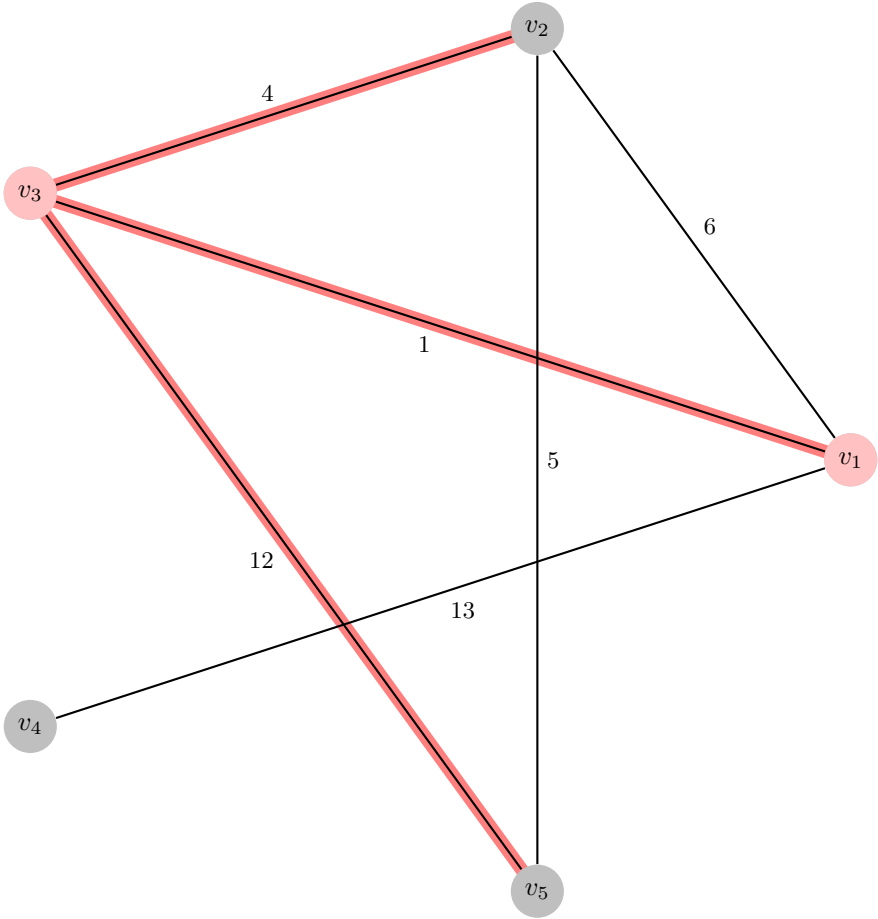
Vertices explored from v_3. Next vertex is v_2. Edge relaxations shown in **bold**.

vertex	shortest path	length
v_2	$v_1 \to v_3 \to v_2$	5
v_3	$v_1 \to v_3$	$1 = \min\{1,\ 5{+}4\}$
v_4	$v_1 \to v_4$	13
v_5	$v_1 \to v_3 \to v_2 \to v_5$	$10 = \mathbf{\min\{13,\ 5{+}5\}}$
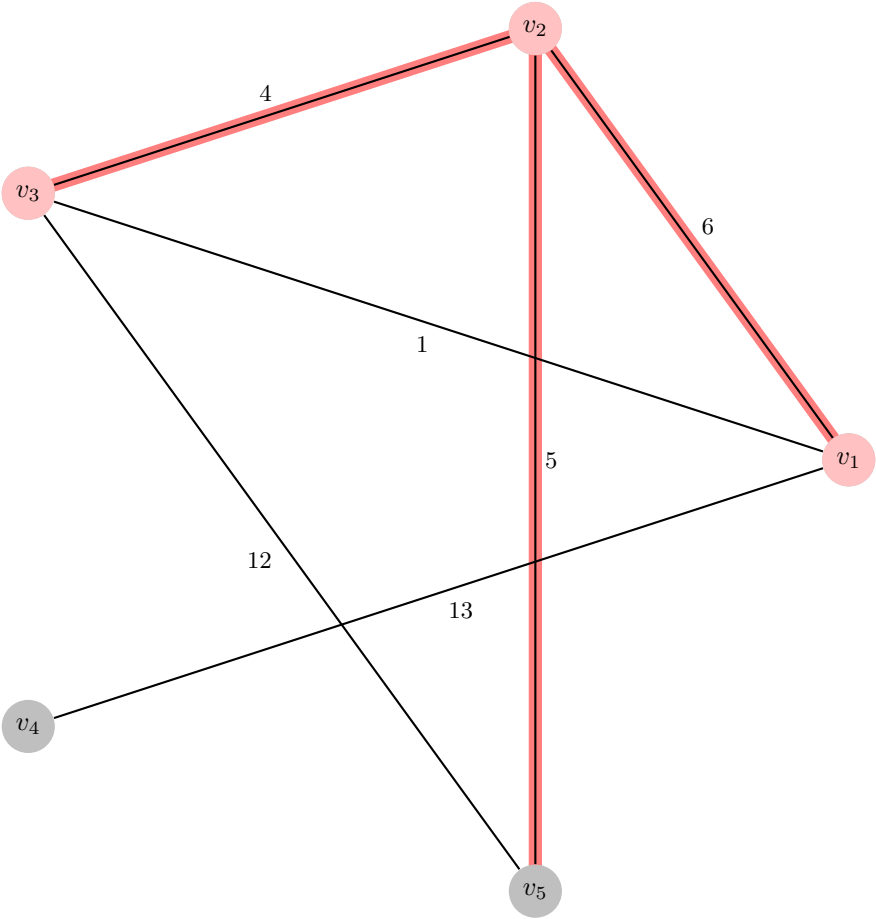
Vertices explored from v_2. Next vertex is v_5. Edge relaxations shown in **bold**.

vertex	shortest path	length
v_2	$v_1 \to v_3 \to v_2$	$5 = \min\{5,\ 10+5\}$
v_3	$v_1 \to v_3$	$1 = \min\{1,\ 10+12\}$
v_4	$v_1 \to v_4$	13
v_5	$v_1 \to v_3 \to v_2 \to v_5$	10
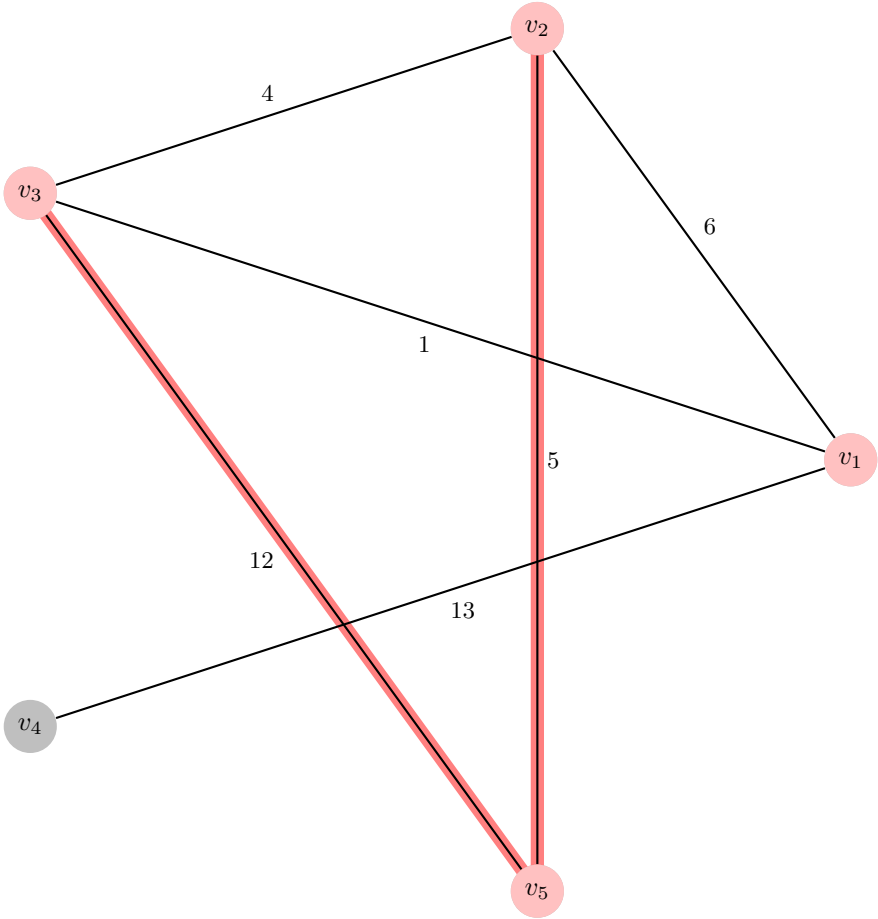
Vertices explored from v_5. Next vertex is v_4. Edge relaxations shown in **bold**.