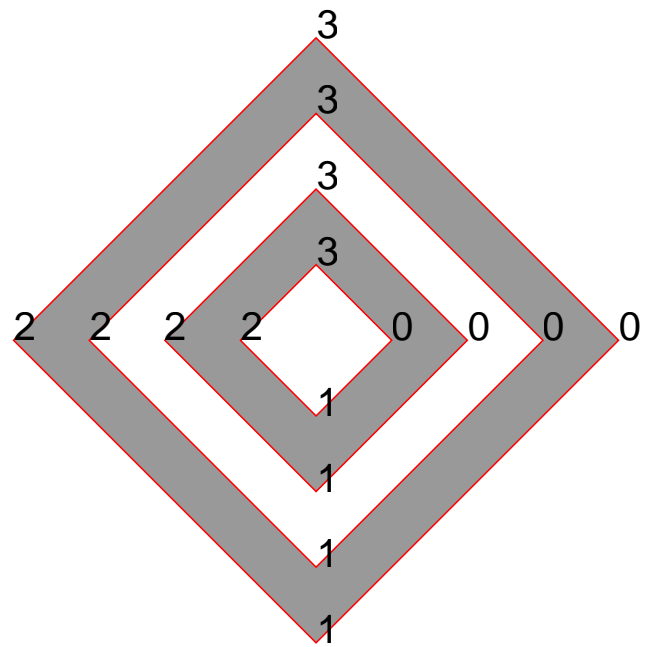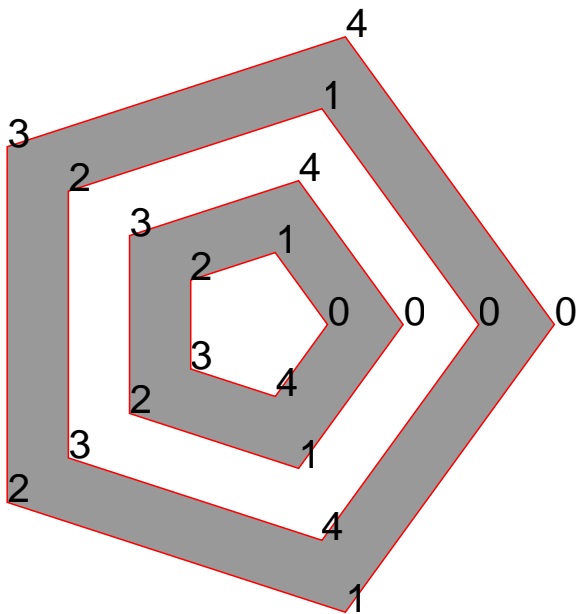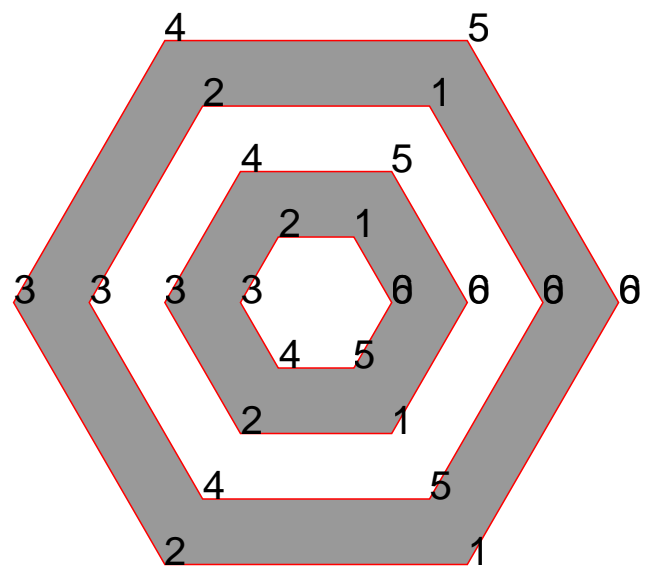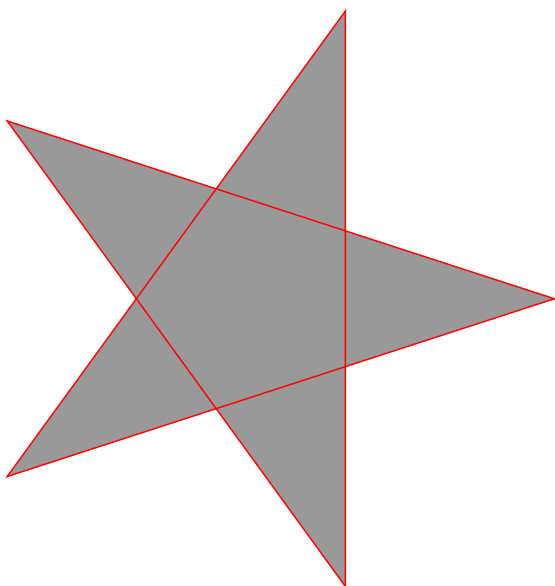B (same direction, non zero winding)
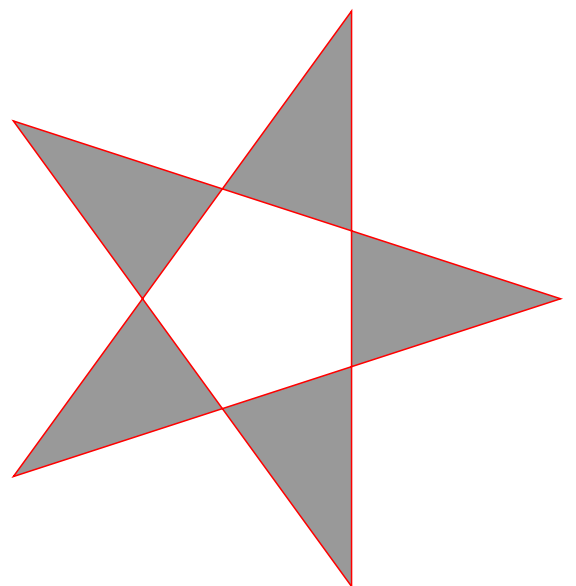
B* (same direction, even odd)

B (different direction, non zero winding)

B* (different direction, even odd)

B (non zero winding)

B* (even odd)