1 Highest degree of rotational symmetry?

1.1 60° rotational summetry

1.1.1 Has reflection

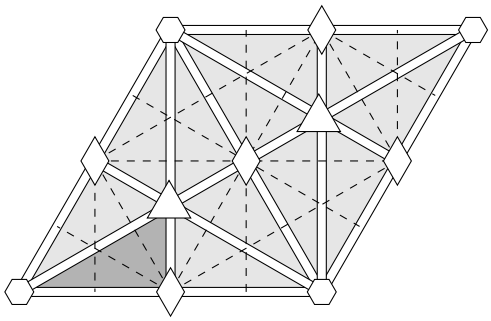

Figure 1: p6m

1.1.2 Has no reflection

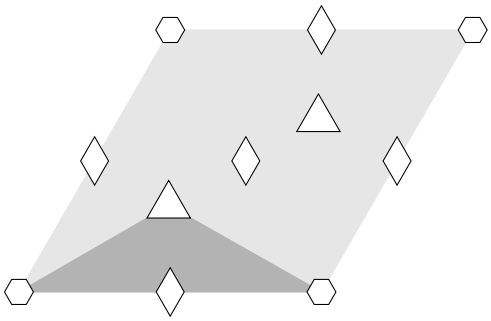

Figure 2: p6

1.2 90° rotational summetry

1.2.1 Has reflection with mirrors at 45°

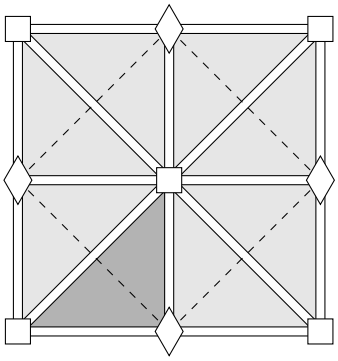

Figure 3: p4m

1.2.2 It Has reflection but no mirrors at 45°

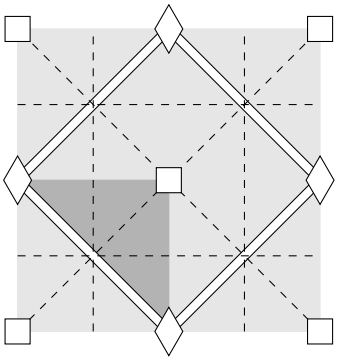

Figure 4: p4g

1.2.3 No reflection

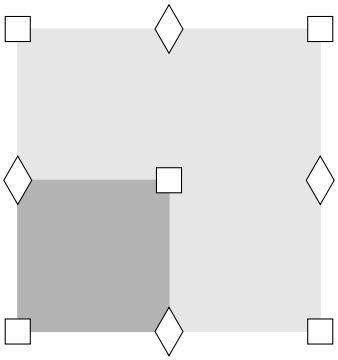

Figure 5: p4

1.3 120° rotational summetry

1.3.1 Has no reflection

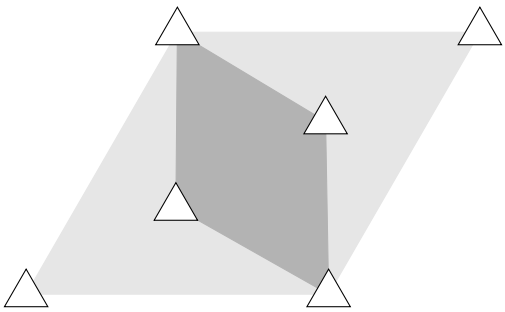

Figure 6: p3

1.3.2 Has rotocenter off mirrors

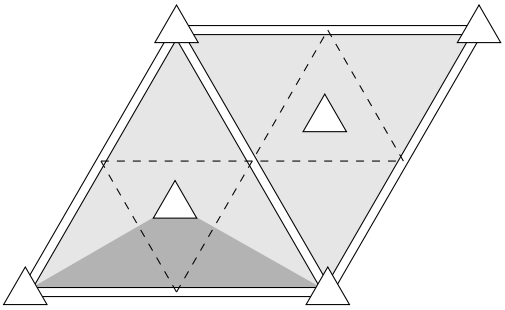

Figure 7: p31m

1.3.3 Has rotocenter along mirrors

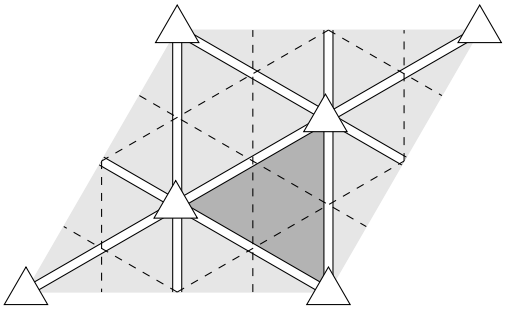

Figure 8: p3m1

1.4 180° rotational summetry

1.4.1 Has no glide reflection

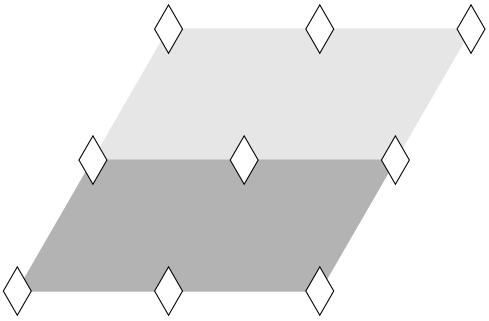

Figure 9: p2

1.4.2 Has glide reflection

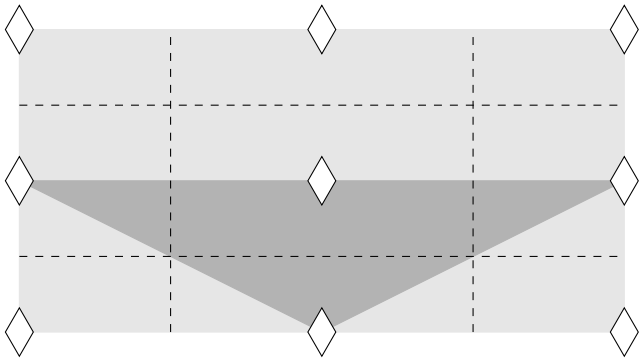

Figure 10: pgg

1.4.3 Has no perpendicular reflection

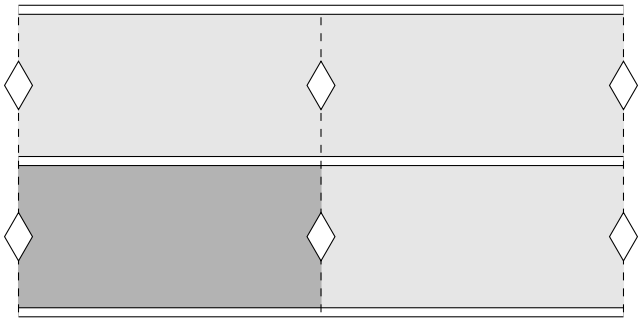

Figure 11: pmg

1.5 Has perpendicular reflection with rotocenter off mirrors

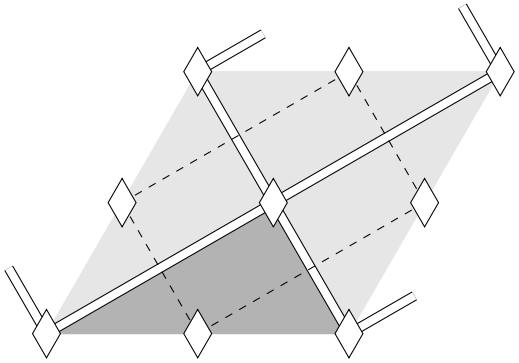

Figure 12: cmm

1.6 Has perpendicular reflection with rotocenter along mirrors

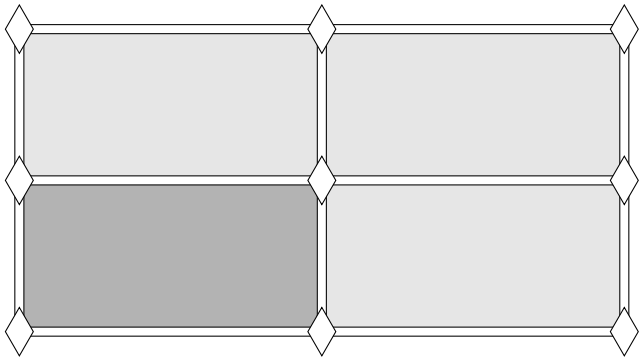

Figure 13: pmm

2 Has no rotational symmetry

2.1 Has no glide reflection

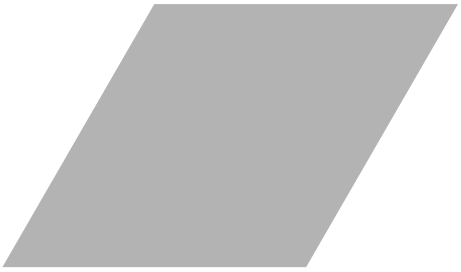

Figure 14: p1

2.2 Has glide reflection

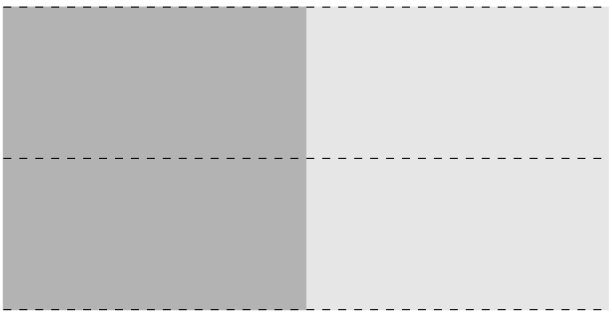

Figure 15: pg

2.3 Has glide axis off mirrors

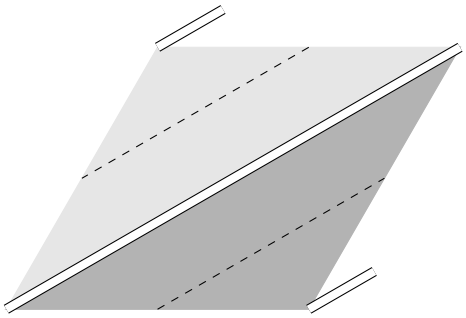

Figure 16: cm

2.4 Has glide axis along mirrors

Figure 17: pm

This document was prepared for Maths is Fun: symmetry program on 1 Feb 2026 at SGB by Disha Kuzhively, not for circulation.