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\definecolor[b][c=1,m=1.0,y=0,k=0]
\definecolor[m][c=0,m=.95,y=1,k=0]
\definecolor[k][c=0,m=.09,y=1,k=0]

\starttext

\startuseMPgraphic{grid}
  pickup pencircle scaled .25pt;
  draw fullsquare xyscaled (21cm,.75cm) shifted (3.885cm, 0) withcolor white;
  draw fullsquare xyscaled (.75cm, 6cm) shifted (-8cm,-4.485cm) withcolor white;
\stopuseMPgraphic

\startuseMPgraphic{jalur}
  picture MyJalur; MyJalur := image (
    fill fullsquare xysized (14,1) shifted (14,-0) withcolor \MPcolor{m};
    picture cp; cp := currentpicture;
    def copy = addto currentpicture also cp enddef;
    copy yscaled 8 shifted (-14,-3.5) withcolor \MPcolor{b};
    copy shifted (0,-1) withcolor white; copy shifted (0,-2) withcolor \MPcolor{m};
    copy shifted (0,-3) withcolor white; copy shifted (0,-4) withcolor \MPcolor{m};
    copy shifted (0,-5) withcolor white; copy shifted (0,-6) withcolor \MPcolor{m};
    copy shifted (0,-7) withcolor white;
    copy xscaled 2 shifted (-21,- 8) withcolor \MPcolor{m};
    copy xscaled 2 shifted (-21,- 9) withcolor white;
    copy xscaled 2 shifted (-21,-10) withcolor \MPcolor{m};
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copy xscaled 2 shifted (-21,-11) withcolor white;
copy xscaled 2 shifted (-21,-12) withcolor \MPcolor{m};
copy xscaled 2 shifted (-21,-13) withcolor white;
draw fullsquare xscaled (28,14) shifted (7,-6.5);
) xyscaled .75cm shifted (-1.375cm,-1.86cm);
draw MyJalur withpen pencircle scaled .25pt;
\stopuseMPgraphic

\startuseMPgraphic{anakbulan}
fill fullcircle scaled 2 xyscaled 2.2500cm shifted (-2.3100cm,-4.485cm)
withcolor \MPcolor{k};

fill fullcircle scaled 2 xyscaled (2.0925cm,1.9575cm) shifted (-1.7175cm,-4.485cm)
withcolor \MPcolor{b}; % r_semimajor = 2.79 unit, r_semiminor = 2.61 unit
\stopuseMPgraphic

\startuseMPgraphic{bintang}
picture BintangPecah; BintangPecah := image (
a = .75cm; b = 1.875cm; z01 = -z15 = (a, 0); -z08 = z22 = (0, -b);
c = 1.83cm; d = .42 cm; z02 = -z16 = (c, d); -z14 = z28 = (c, -d);
e = .68cm; f = .33 cm; z03 = -z17 = (e, f); -z13 = z27 = (e, -f);
g = 1.47cm; h = 1.17 cm; z04 = -z18 = (g, h); -z12 = z26 = (g, -h);
i = .47cm; j = .59 cm; z05 = -z19 = (i, j); -z11 = z25 = (i, -j);
k = .81cm; l = 1.69 cm; z06 = -z20 = (k, l); -z10 = z24 = (k, -l);
m = .17cm; n = .73 cm; z07 = -z21 = (m, n); -z09 = z23 = (m, -n);
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fill z01--z02--z03--z04--z05--z06--z07--z08--z09--z10--z11--z12--z13
    --z14--z15--z16--z17--z18--z19--z20--z21--z22--z23--z24--z25--z26
    --z27--z28--cycle withcolor \MPcolor{k};
) shifted (-.0625cm,-4.485cm); draw BintangPecah;
\stopuseMPgraphic

\startMPcode
\includeMPgraphic{grid} \includeMPgraphic{jalur}
\includeMPgraphic{anakbulan} \includeMPgraphic{bintang}
\stopMPcode

\stoptext
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