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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}
  picture KadarSatu; KadarSatu := image (
    for i := 0 step 1 until 27 : interim miterlimit := i*cm;
      draw fullsquare shifted (i,0) scaled .75cm withcolor .475white;
    endfor;

    for i := 2.75 step 3 until 9 : interim miterlimit := i*cm;
      draw fullsquare shifted (i,0) scaled .75cm;
    endfor;
  ) shifted (-6.25cm,0); draw KadarSatu withpen pencircle scaled .25pt;

  picture KadarDua; KadarDua := image (
    for i := 0 step 1 until 7 : interim miterlimit := i*cm;
      draw fullsquare shifted (0,-i) scaled .75cm withcolor .475white;
    endfor;
  ) shifted (-8cm,-1.86cm); draw KadarDua withpen pencircle scaled .25pt;
\stopuseMPgraphic

\startuseMPgraphic{jalur}
  picture MyJalur; MyJalur := image (
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fill fullsquare xysized (14, 8) shifted (0,-3.5) withcolor \MPcolor{b};
fill fullsquare xysized (14, 1) shifted (14,- 0) withcolor \MPcolor{m};
fill fullsquare xysized (14, 1) shifted (14,- 1) withcolor white;
fill fullsquare xysized (14, 1) shifted (14,- 2) withcolor \MPcolor{m};
fill fullsquare xysized (14, 1) shifted (14,- 3) withcolor white;
fill fullsquare xysized (14, 1) shifted (14,- 4) withcolor \MPcolor{m};
fill fullsquare xysized (14, 1) shifted (14,- 5) withcolor white;
fill fullsquare xysized (14, 1) shifted (14,- 6) withcolor \MPcolor{m};
fill fullsquare xysized (14, 1) shifted (14,- 7) withcolor white;
fill fullsquare xysized (28, 1) shifted ( 7,- 8) withcolor \MPcolor{m};
fill fullsquare xysized (28, 1) shifted ( 7,- 9) withcolor white;
fill fullsquare xysized (28, 1) shifted ( 7,-10) withcolor \MPcolor{m};
fill fullsquare xysized (28, 1) shifted ( 7,-11) withcolor white;
fill fullsquare xysized (28, 1) shifted ( 7,-12) withcolor \MPcolor{m};
fill fullsquare xysized (28, 1) shifted ( 7,-13) withcolor white;
draw fullsquare xysized (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};
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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);

  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};

  draw fullcircle scaled 2 xyscaled .75cm dashed withdots withpen pencircle scaled 2bp;
  draw fullcircle scaled 5 xyscaled .75cm dashed withdots withpen pencircle scaled 2bp;
) shifted (-.0625cm,-4.485cm); draw BintangPecah;
\stopuseMPgraphic

\startuseMPgraphic{dash}
picture Sengkang; Sengkang := image (
  i := .75cm; a := -6.7cm; b := .36cm; c := -8.5cm; d := 14.25cm;
  drawoptions(dashed oddly) ; draw ((c,-1.98i)--(d,-1.98i));

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draw ((-9.00i,a)--(-9.00i,b)); draw ((c,-2.98i)--(d,-2.98i));
draw ((-6.25i,a)--(-6.25i,b)); draw ((c,-3.48i)--(d,-3.48i));
draw ((-5.25i,a)--(-5.25i,b)); draw ((c,-4.98i)--(d,-4.98i));
draw ((-3.25i,a)--(-3.25i,b)); draw ((c,-5.98i)--(d,-5.98i));
draw ((-0.25i,a)--(-0.25i,b)); draw ((c,-6.98i)--(d,-6.98i));
draw (( 2.25i,a)--( 2.25i,b)); draw ((c,-8.48i)--(d,-8.48i));
draw (( 5.00i,a)--( 5.00i,b)); draw ((c,-8.98i)--(d,-8.98i));
draw ((19.00i,a)--(19.00i,b)); draw ((c,-9.98i)--(d,-9.98i));
) shifted (.125cm,0); draw Sengkang withpen pencircle scaled .25pt;
\stopuseMPgraphic

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

\stoptext
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