THE LETTER FUNCTIONS - R O M A N

THE_LETTER_R

```
function xy = THE_LETTER_R(height, width, ptsPerMeter, ptsPerRadian, xyLocation)
  xy_1 = StraightLine(0, 0, 0, height, ptsPerMeter);                                    % left
  xy_2 = StraightLine(0, height, (3/4)*width, height, ptsPerMeter);                     % top
  xy_3 = CurvedLine((3/4)*width, height, (3/4)*width, (1/2)*height, (1/4)*width, ptsPerRadian); % curve
  xy_4 = StraightLine((3/4)*width, (1/2)*height, 0, (1/2)*height, ptsPerMeter);         % middle
  xy_5 = StraightLine(0, (1/2)*height, width, 0, ptsPerMeter);                          % leg

  xy_all = [xy_1; xy_2; xy_3; xy_4; xy_5];

  xy = xy_all + xyLocation;
end
```

THE_LETTER_O

```
function  xy = THE_LETTER_O(height, width, ptsPerMeter, ptsPerRadian, xyLocation)
  xy_1 = CurvedLine(width, (2/3)*height, 0, (2/3)*height, (1/3)*height, ptsPerRadian);  % top
  xy_2 = StraightLine(0, (2/3)*height, 0, (1/3)*height, ptsPerMeter);                   % left
  xy_3 = CurvedLine(0, (1/3)*height, width, (1/3)*height, -(1/3)*height, ptsPerRadian); % bottom
  xy_4 = StraightLine(width, (1/3)*height, width, (2/3)*height, ptsPerMeter);           % right

  xy_all = [xy_1; xy_2; xy_3; xy_4];

  xy = xy_all + xyLocation;
end
```

THE_LETTER_M

```
function  xy = THE_LETTER_M(height, width, ptsPerMeter, xyLocation)
  xy_1 = StraightLine(0, 0, 0, height, ptsPerMeter);                    % left
  xy_2 = StraightLine(0, height, width/2, height/2, ptsPerMeter);       % middle-left
  xy_3 = StraightLine(width/2, height/2, width, height, ptsPerMeter);   % middle-right
  xy_4 = StraightLine(width, height, width, 0, ptsPerMeter);            % right

  xy_all = [xy_1; xy_2; xy_3; xy_4];

  xy = xy_all + xyLocation;
end
```

THE LETTER FUNCTIONS - R O M A N

THE_LETTER_A

```
function  xy = THE_LETTER_A(height, width, ptsPerMeter, xyLocation)
  xy_1 = StraightLine(0, 0, width/2, height, ptsPerMeter);                          % left
  xy_2 = StraightLine(width/2, height, width, 0, ptsPerMeter);                      % right
  xy_3 = StraightLine(width, 0, (5/6)*width, height/3, ptsPerMeter);                % right-bottom
  xy_4 = StraightLine((5/6)*width, height/3, (1/6)*width, height/3, ptsPerMeter);   % horizontal

  xy_all = [xy_1; xy_2; xy_3; xy_4];

  xy = xy_all + xyLocation;
end
```

THE_LETTER_N

```
function  xy = THE_LETTER_N(height, width, ptsPerMeter, xyLocation)
  xy_1 = StraightLine(0, 0, 0, height, ptsPerMeter);                % left5
  xy_2 = StraightLine(0, height, width, 0, ptsPerMeter);            % middle
  xy_3 = StraightLine(width, 0, width, height, ptsPerMeter);        % right

  xy_all = [xy_1; xy_2; xy_3];

  xy = xy_all + xyLocation;
end
```