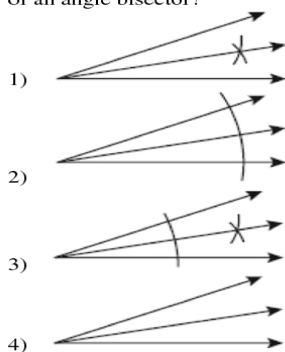


Geometry Regents at Random Worksheets

- 1 The lines $3y + 1 = 6x + 4$ and $2y + 1 = x - 9$ are
- 1) parallel
 - 2) perpendicular
 - 3) the same line
 - 4) neither parallel nor perpendicular

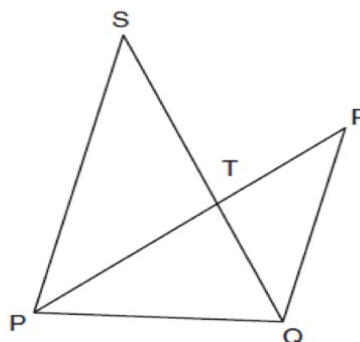
- 4 What is the measure of an interior angle of a regular octagon?
- 1) 45°
 - 2) 60°
 - 3) 120°
 - 4) 135°

- 2 Which illustration shows the correct construction of an angle bisector?



- 3 The endpoints of \overline{CD} are $C(-2, -4)$ and $D(6, 2)$.
What are the coordinates of the midpoint of \overline{CD} ?
- 1) $(2, 3)$
 - 2) $(2, -1)$
 - 3) $(4, -2)$
 - 4) $(4, 3)$

- 5 In the diagram below, \overline{SQ} and \overline{PR} intersect at T , \overline{PQ} is drawn, and $\overline{PS} \parallel \overline{QR}$.



- What technique can be used to prove that $\triangle PST \sim \triangle RQT$?
- 1) SAS
 - 2) SSS
 - 3) ASA
 - 4) AA

- 6 The degree measures of the angles of $\triangle ABC$ are represented by x , $3x$, and $5x - 54$. Find the value of x .