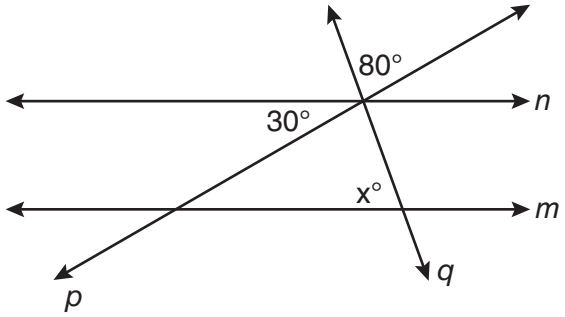
Use this space for computations.

9 In the diagram below, lines n and m are cut by transversals p and q.



Which value of x would make lines n and m parallel?

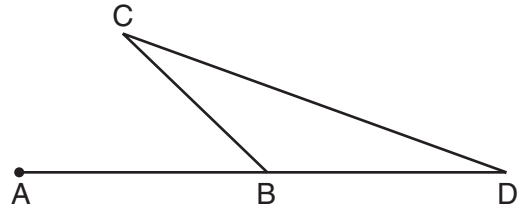
(1) 110
(2) 80
(3) 70
(4) 50

10 What is an equation of the circle with a radius of 5 and center at $(1,-4)$?

(1) $(x + 1)^2 + (y - 4)^2 = 5$
(2) $(x - 1)^2 + (y + 4)^2 = 5$
(3) $(x + 1)^2 + (y - 4)^2 = 25$
(4) $(x - 1)^2 + (y + 4)^2 = 25$

Use this space for computations.

11 In the diagram below of $\triangle BCD$, side $\overline{DB}$ is extended to point A.



Which statement must be true?

(1) $m\angle C > m\angle D$

(2) $m\angle ABC < m\angle D$

(3) $m\angle ABC > m\angle C$

(4) $m\angle ABC > m\angle C + m\angle D$

12 Which equation represents the line parallel to the line whose equation is $4x + 2y = 14$ and passing through the point (2,2)?

(1) $y = -2x$

(2) $y = -2x + 6$

(3) $y = \frac{1}{2}x$

(4) $y = \frac{1}{2}x + 1$

13 The coordinates of point A are $(-3a,4b)$. If point A' is the image of point A reflected over the line $y = x$, the coordinates of A' are

(1) $(4b,-3a)$

(2) $(3a,4b)$

(3) $(-3a,-4b)$

(4) $(-4b,-3a)$