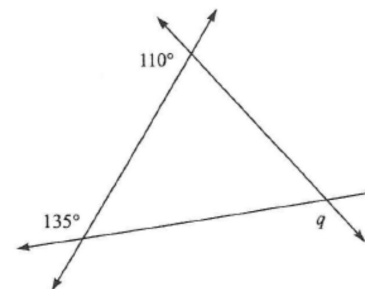


9. What is the value of  $|4 - x|$  if  $x = 7$ ?

- A.  $-11$
- B.  $-3$
- C.  $3$
- D.  $11$
- E.  $47$

10. In the figure below, where the triangle is created by 3 lines that intersect at the angles indicated, the measure of angle  $q$  = ?



- A. F.  $45^\circ$
- B. G.  $65^\circ$
- C. H.  $70^\circ$
- D. J.  $110^\circ$
- E. K.  $115^\circ$

11.  $(\sqrt{2} - 6)(\sqrt{2} - 4) = ?$

- A.  $10\sqrt{2} - 22$
- B.  $12\sqrt{2} + 24$
- C.  $24 - \sqrt{2}$
- D.  $26 - 10\sqrt{2}$
- E.  $10 - 11\sqrt{2}$

12. For all real numbers  $x$  and  $y$ ,  $(x - 3y)^2 = ?$

- A. F.  $2x - 6y$
- B. G.  $x^2 - 6xy + 9y^2$
- C. H.  $x^2 - 9y^2$
- D. J.  $x^2 - 9x^2y^2 - 9y^2$
- E. K.  $x^2 + 9xy + 9y^2$

13. If  $x$  is an odd integer greater than 5, what is the next greater odd integer in terms of  $x$ ?

- A.  $x + 2$
- B.  $x + 3$
- C.  $x + 5$
- D.  $3x$
- E.  $x^2$

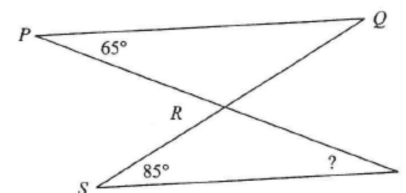
14. Which of the following has the same graph as  $x + 8y = 3$ ?

- A. F.  $3x + 11y = 6$
- B. G.  $2x + 10y = 5$
- C. H.  $3x + y = 8$
- D. J.  $3x + 24y = 9$
- E. K.  $x - 8y = -3$

15. Anne is 3 times as old as Kyle. If their combined age is 24, how old is Anne?

- A. 24
- B. 18
- C. 12
- D. 9
- E. 6

16. In the figure below, the 2 intersecting lines  $QS$  and  $PT$  form triangles  $PRQ$  and  $SRT$ . Lines  $PQ$  and  $ST$  are parallel. If angle  $P$  is  $65^\circ$  and angle  $S$  is  $85^\circ$ , what is the measure of angle  $T$ ?



- A. F.  $45^\circ$
- B. G.  $55^\circ$
- C. H.  $65^\circ$
- D. J.  $75^\circ$
- E. K.  $85^\circ$

17. Carrie has \$7 less than does her brother, Steve, who has  $d$  dollars. Carrie does not spend any money and earns \$3. Which of the following is an expression for the amount of money, in dollars, that Carrie has?

A.  $(d - 7) + 2$   
B.  $d + 4$   
C.  $d - (7 + 3)$   
D.  $d - 4$   
E.  $d - 7$

18. If  $0.2a + 1.8 = a - 2.2$ , then  $a = ?$

A. F. 4  
B. G. 5  
C. H. 8  
D. J. 12  
E. K. 20

19. Of the following, which is the smallest integer,  $x$ , satisfying the condition that  $-\sqrt{8} + x$  is negative?

A. 2  
B. 3  
C. 4  
D. 5  
E. 6

20. Jennifer cut a ribbon 30 inches long into 2 pieces. The ratio of the lengths of the 2 pieces is 2:3. What is the length, to the nearest inch, of the longer piece?

A. F. 5  
B. G. 6  
C. H. 12  
D. J. 15  
E. K. 18