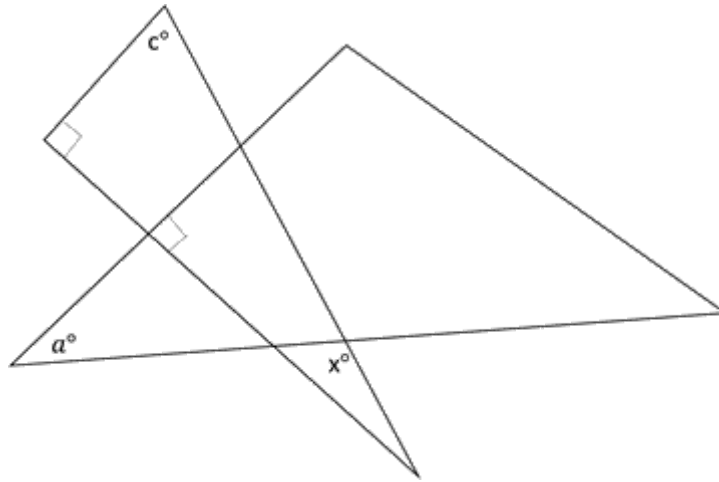


Examrace

SAT Practice Test Paper 1 Section B Questions and Answers Part 2

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7. If $a = 60$ and $c = 50$ then $x =$



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- (A) 40
- (B) 65
- (C) 75
- (D) 85
- (E) 110

8. $\left[(2^2 + 2^2)^{-1} \right]^{-2} =$

- (A) $\frac{1}{64}$

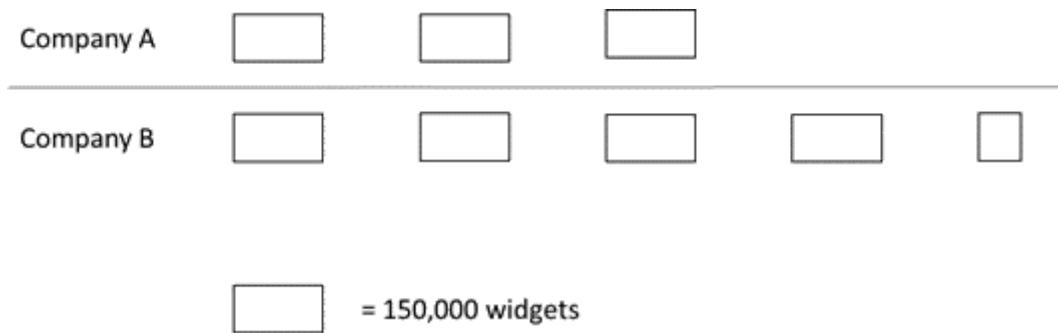
(B) $\frac{1}{16}$

(C) $\frac{1}{8}$

(D) 16

(E) 64

9. According to the chart below, Company B produced approximately how many more widgets than Company A?



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(A) 75,000

(B) 150,000

(C) 225,000

(D) 300,000

(E) 375,000

10. If x^x is odd, and x is an integer, then the value of x must be

(A) Odd.

(B) Even.

(C) Less than one.

(D) An irrational number.

(E) None of the above.

The factorial of a number is the product of all the integers from one to the number. For the integers from one to the number. For example, 5 factorial is $5 \times 4 \times 3 \times 2 \times 1$. The notation for a factorial is the number followed by an exclamation point.

Thus $5! = 5 \times 4 \times 3 \times 2 \times 1$.

11. $\frac{6!}{3!} =$

(A) 2

(B) 16

(C) 30

(D) 88

(E) 120

12. If $f(x) = (x!)^2$ then $f(3) =$

(A) 16

(B) 36

(C) 172

(D) 1080

(E) 6282

13. If $y + 2 = x$, and y and x are integers, then $\frac{y!}{x!} =$

(A) $\frac{1}{(y+2)(y+1)}$

(B) y

(C) $\frac{1}{y^2}$

(D) $\frac{y}{x}$

(E) $y(y-1)$

14. If the determinant of this matrix is -6 , what is the value of n ?

(A) -2

(B) $-5\frac{3}{5}$

(C) -7

(D) -8 (E) $-8\frac{3}{4}$ 15. If $p + q = 2q + 6$, which of the following statements must be true?I. p is evenII. q is evenIII. pq is even

Choose the Correct Option

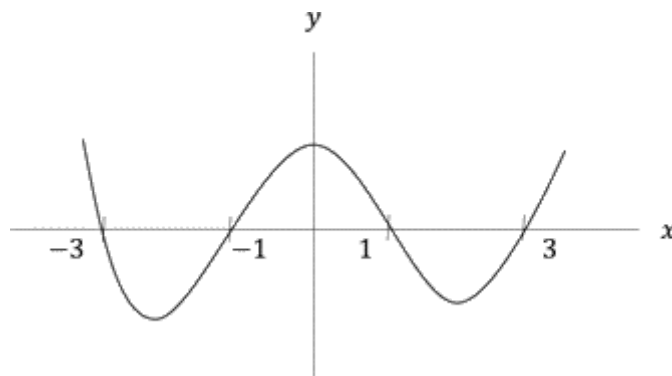
(A) I only

(B) II only

(C) II and III only

(D) I, II and III

(E) None

16. For the below graph, for which values of x is $y > 0$?©Examrace. Report @violations @<https://tips.fbi.gov/>(A) $-3 < x < -1$ and $1 < x < 3$ (B) $x < -3$ and $-1 < x < 1$ and $x > 3$ (C) $x > 3$ and $x > 1$ (D) $x > 3$ and $x > 1$

(E) $-3 > x > 3$

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