

Appendix:

Item 13:

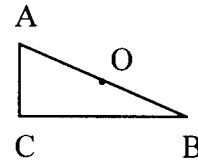
To draw two quadratic functions $y = 2x^2 + 1$ and $y = 2x^2 - 1$ on the same coordinate planes. Which answer is wrong in the following description related to the two quadratic functions?

- (A) with the same open direction
- (B) both of the two graphs are parabola
- (C) with the same vertex coordinate
- (D) with the same axis of symmetry

Item 24:

In the right figure, in the $\triangle ABC$, $\angle ACB=90^\circ$, and $BC > AC$

Draw: two lines AC and BC. They are the tangency of a circle, and the circle center O on the line AB.



Which of the following graphs is right?

- (A) choose the midpoint of section line AB as the O
- (B) draw the mid-vertical line of AC and intersect line AB in O
- (C) draw the mid-vertical line of BC and intersect line AB in O
- (D) draw the line to equalize $\angle ACB$ and intersect line AB in O

Item 26:

Which of the following quadrilateral is similar to the quadrilateral of Figure 1?

(A)

(B)

(C)

(D)

Figure 1

Item 7:

In the figure 2, ABCD is a rectangle. The coordinates are $A(-2,3)$, $B(-2,-3)$, $D(4,3)$, then which the following answer is the equation of line BC?

- (A) $y-3=0$ (B) $y+3=0$
 (C) $x-1=0$ (D) $x-4=0$

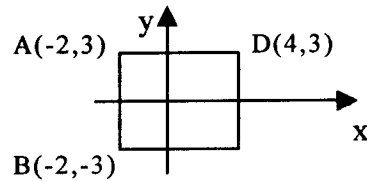
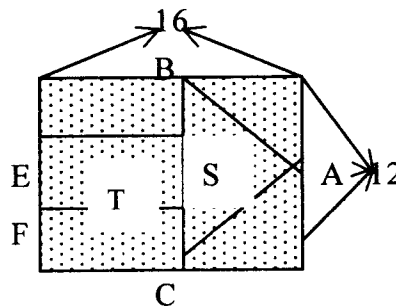


Figure 2

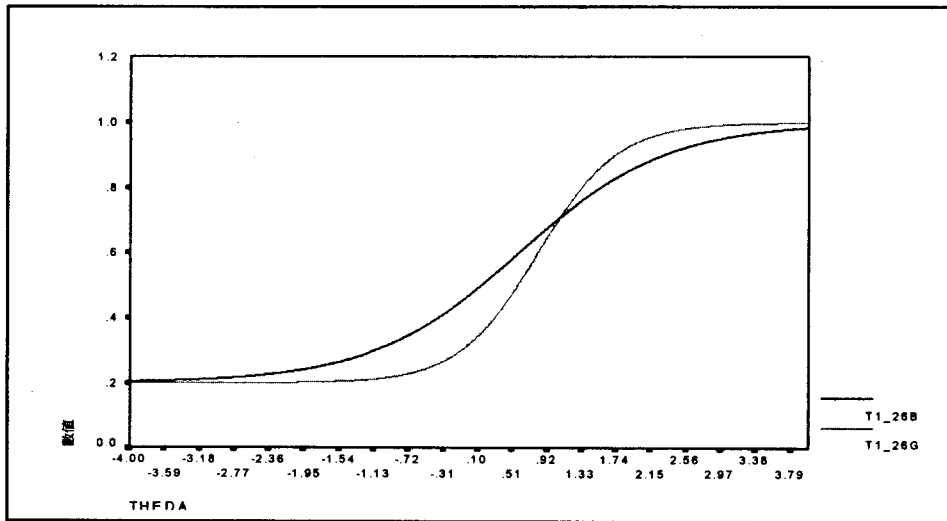
Item 28:

In the figure 3, a company designs a rectangle courtyard, the length side is 16 meter and the width side is 12 meter. The area S (an isosceles right triangle ABC) is the rest area, the area T is a pathway. The left area is equal to 141 square meters. Then, what's the width of the T area?

- (A) 1 (B) 1.5
 (C) 2 (D) 2.5



Graph of item 26:



Graph of item 24:

