This was the many and the

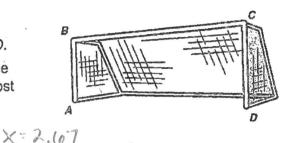
Key

Use the diagram for Exercises 1 and 2.

The soccer goalposts determine rectangle ABCD.

1. The distance between goalposts, *BC*, is three times the distance from the top of the goalpost to the ground. If the perimeter of *ABCD* is

 $21\frac{1}{3}$ yards, what is the length of \overline{BC} ?



8.01

2. The distance from B to D is approximately (x + 10) feet, and the distance from A to C is approximately (2x - 5.3) feet. What is the approximate distance from A to C?

X=15.3

25.3

3. MNPQ is a rhombus. The measure of $\angle MRQ$ is $(13t-1)^\circ$, and the measure of $\angle PQR$ is $(7t+4)^\circ$. What is the measure of $\angle PQM$?

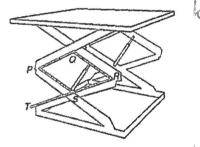
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4. The scissor lift forms rhombus PQRS with PQ = (7b - 5) meters and QR = (2b - 0.5) meters. If S is the midpoint of RT, what is the length of RT?



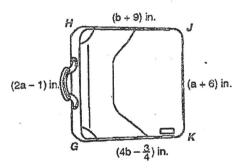
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5. The diagram shows the lid of a rectangular case that holds 80 CDs. What are the dimensions of the case?



0=.0

2.6



13 by 12.25

Choose the best answer.

6. What is the measure of ∠1 in the rectangle?



A 34°

C 90°

B)68°

D 146°

7. A square graphed on the coordinate plane has a diagonal with endpoints E(2, 3) and F(0, -3). What are the coordinates of the endpoints of the other diagonal?

F (4, -1) and (-2, 1)

G (4, 0) and (-2, 1)

H (4, -1) and (-3, 1)

J (3, -1) and (-2, 1)

* distance Formula