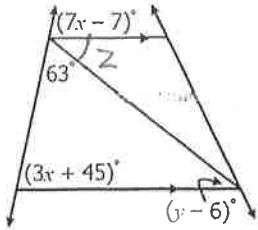


Unit 2 Test 2 Linear Functions and Geometry TEST --- FORM A

(3 pts each)

- 1) D
- 2) A
- 3) A
- 4) A
- 5) A
- 6) C
- 7) B
- 8) C
- 9) A
- 10) A
- 11) B
- 12) B
- 13) A
- 14) A
- 15) D
- 16) A
- 17) A
- 18) C
- 19) A
- 20) A
- 21) C
- 22) C
- 23) B

24) (11 points) Find the value of y:



$$7x - 7 = 3x + 45$$

$$4x = 52$$

$$x = 13$$

$$7(13) - 7 + 63 + 2 = 180$$

$$147 + 2 = 180$$

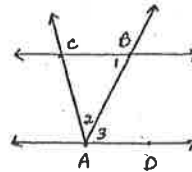
$$2 = 33^\circ$$

$$33 = y - 6$$

$$39 = y$$

25) (10 points) Write a Two Column Proof:

Given: \vec{AB} bisects $\angle CAD$
 $\vec{CB} \parallel \vec{AD}$
 Prove: $\angle 1 \cong \angle 2$



Statement	Reason
\vec{AB} bisects $\angle CAD$	Given
$\vec{CB} \parallel \vec{AD}$	Given
$\angle 2 \cong \angle 3$	def. of \angle bisector
$\angle 1 \cong \angle 3$	alt. int. \angle s \cong
$\angle 1 \cong \angle 2$	Trans. prop. of \cong

26) Write a second inequality (and box your answer) for the system, so that the system will have no solution.

Graph the system to show your results. (10 points)

$$x - 4y < 16$$

$$\frac{-4y}{-4} < \frac{-x + 16}{-4}$$

$$y > \frac{1}{4}x - 4$$

$$y < \frac{1}{4}x + b$$

$$b \leq -4$$

$$y > \frac{1}{4}x - 4$$

$$y < \frac{1}{4}x - 6$$

