1. Which of the following statements about the system of equations below is true?

Eq. 1) 
$$\frac{3y}{3} = \frac{9x}{3} - \frac{18}{3}$$
  
 $y = 3 \times -6$ 

Eq. 2) 
$$5y + 15x + 30 = 0$$
  

$$-(5x - 30) - (5x - 30)$$

$$5y = -15x - 30$$

$$7 = -3x - 6$$

- A) The system has one unique solution different 5 lope
  - B) The system has **two** unique solutions  $\land \checkmark \checkmark \circ \bigcirc$
  - C) The system has **no** solutions same slape
  - **D)** The system has an **infinite** number of solutions  $+ \bot = 5$

2. Which of the following statements about the system of equations below is true?

Eq. 1) 
$$\frac{4y = -28x + 76}{4}$$

$$\frac{4y = -28x + 76}{4}$$

Eq. 2) 
$$-14x - 2y - 42 = 0$$

$$-114x + 47 + 47 + 47$$

$$-\frac{7}{2} = \frac{14x + 47}{-2}$$

$$y = -7x - 2$$

- **A)** The system has **one** solution (C) The system has **no** solutions
- **B)** The system has **two** solutions **D)** The system has **infinite** solutions

3. Last night the New York Knicks played the Dallas Mavericks. The Knicks scored 10 more than twice as many points as the Mavericks. The two teams had a combined score of 199 points. What was the final score of last night's game?

$$x = 7y + 10$$
 $-10$ 
 $-10$ 
 $-10$ 

$$\left(\frac{x-10}{2}=\frac{2y}{2}\right)$$

$$0.5 \times -5 = -1x + 199$$

$$+1x$$

$$1.5 \times -5 = 199$$

$$+5$$

$$+5$$

$$1.5 \times = 204$$

$$1.5$$

$$1.5 \times = 136$$
4. Anakin and George are related.

- x + y = 129 -x -x ( y = -1x + 199
  - 7=0.5(136)~5 7=63
    - (136-63)
- 4. Anakin and George are related.

  George is 2 years less than four times older than Anakin.

  Anakin and George's combined age is 73 years.

  How old is George?

$$4x-2 = -1x + 73$$
 $+1x$ 
 $+1x$ 
 $5x-2 = 73$ 
 $+2$ 
 $+2$ 
 $5x = 75$ 
 $5$ 
 $x = 15$ 

**5.** Malachi sells phones and laptops at Best Buy.

The price of a laptop is \$30 more than twice the price of a phone.

Two phones and 3 laptops cost \$ 3090.

How much would it cost for 5 phones and 5 laptops?

$$(5 \times 375) + (5 \times 780)$$
  
 $1875 + 3900$   
 $5775$ 

**6.** What are the coordinates of **point D**, where the **two lines meet**? (Drawing not to scale)

