



**Question: 6**

Alex has \$120.00 in his account. He is saving up for a Lego™ model and decides to save \$30.00 per week. Where  $b_n$  represents the balance in his account and  $n$  is the number of weeks, the recurrence relation for Alex's balance could be written as:

- a)  $b_n = 120 + 30b_{n-1}$ ,  $b_1 = 120$                       b)  $b_n = 30 + b_{n-1}$ ,  $b_0 = 120$   
 c)  $b_n = 120 + b_{n-1}$ ,  $b_0 = 30$                               d)  $b_n = 30b_{n-1}$ ,  $b_0 = 120$   
 e)  $b_n = 120b_{n-1}$ ,  $b_0 = 30$

**Question: 7**

Given Eqn1 :  $3x - 2y = 12$  and Eqn2 :  $4x + 3y = 24$  then  $3 \times \text{Eqn1} + 2 \times \text{Eqn2} =$

- a)  $7x = 36$               b)  $17x = 36$               c)  $7x = 84$               d)  $17x = 84$               e)  $17x - 12y = 84$

**Question: 8**

Given Eqn1 :  $5x - 2y = 7$  and Eqn2 :  $y = 3 - 2x$  when Eqn2 is substituted into Eqn1 the result is:

- a)  $9x - 6 = 7$               b)  $x - 6 = 7$               c)  $7x - 3 = 7$               d)  $7x - 6 = 7$               e)  $3x - 6 = 7$

**Question: 9**

Which pair of simultaneous equations intersects at the point (2, 3)?

- a)  $2x + 3y = 12$               b)  $2x - 3y = 1$               c)  $5x - 3y = 1$               d)  $y = 2x - 1$               e)  $3x + 2y = 12$   
       $3x + 2y = 24$               b)  $3x + 2y = 12$               c)  $7x - 2y = 8$               d)  $x = 2y + 1$               e)  $y = x - 1$

**Question: 10**

Renee spends \$58.80 on 4 Large and 3 Medium pizzas. Emily spends \$51.80 on 2 Large and 5 Medium pizzas. What is the cost of a Large pizza?

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