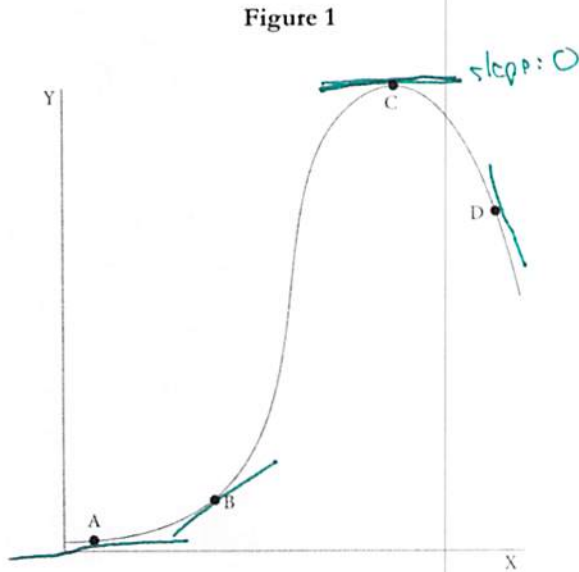


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Name Key

Some of the questions below require you to draw tangent lines or production function. Some are multiple choice questions, which unless it says otherwise, has only one right answer.

(1) In Figure 1 below, draw four tangent lines, one line going through point A, one through B, one through C, and one through D.



(2) In Figure 1, the slope of the tangent line is everywhere positive and increasing (becoming a larger positive number) between points

- a) A and B
- b) A and C
- c) B and C
- d) B and D
- e) C and D
- f) B and D
- g) A and D

(3) In Figure 1, the slope of the tangent line is everywhere positive between points

- a) A and B
- b) A and C
- c) B and C
- d) B and D
- e) C and D
- f) B and D
- g) A and D

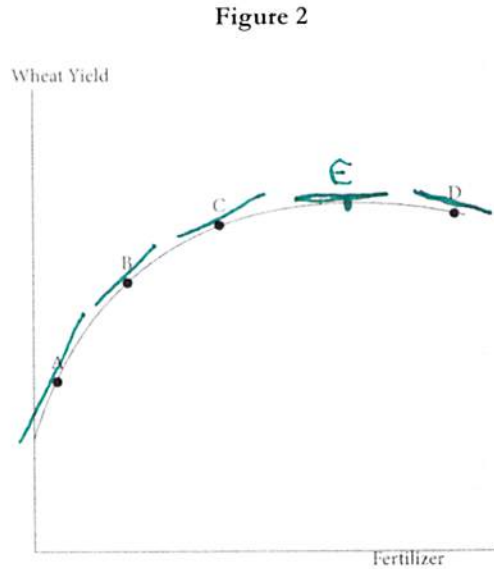
(4) In Figure 1, the slope of the tangent line is everywhere negative between points

- a) A and B
- b) A and C
- c) B and C
- d) B and D
- e) C and D
- f) B and D
- g) A and D

(5) In Figure 1, the slope of the tangent line is zero at Point

- a) A
- b) B
- c) C
- d) D
- e) None of the above

(6) In Figure 2 below, draw a tangent line through all four points.



(7) In Figure 2, indicate the point at which the slope of the tangent line is zero, and labeled it "Point E".

(8) In Figure 2, the marginal product of fertilizer is positive at which points (circle all correct answers)

- a. A
- b. B
- c. C
- d. D

(9) In Figure 2, the marginal product of fertilizer is positive and

- a) Falling between points A, B, and C
- b) Falling between A and B but rising between B and C
- c) Rising between A and B but falling between C and D

(10) In Figure 2, the marginal product of fertilizer is negative at which points (circle all correct answers)

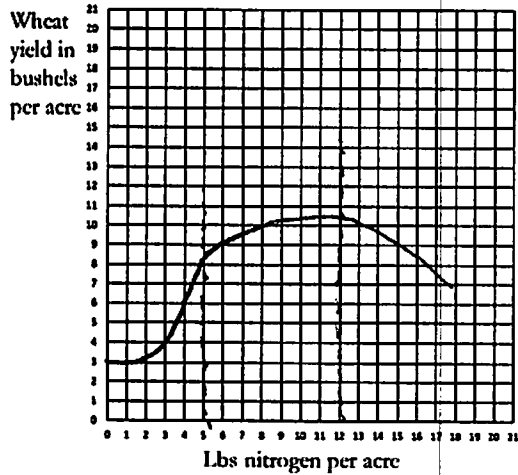
- a. A
- b. B
- c. C
- d. D

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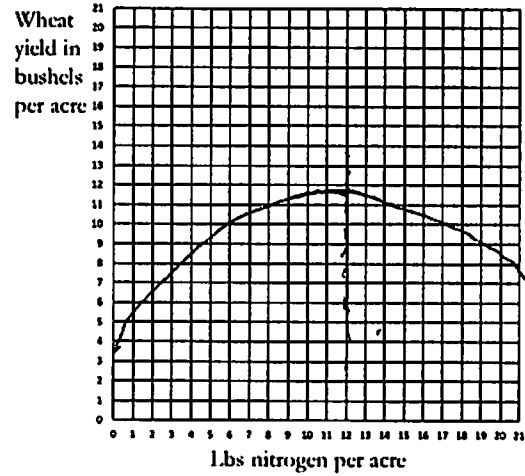
(11) In the figure below, draw a production function that exhibits

- Stage 1 between 0 and 5 lbs N per acre
- Stage 2 between 5 and 12 lbs N per acre
- Stage 3 between 12 and 21 lbs N per acre



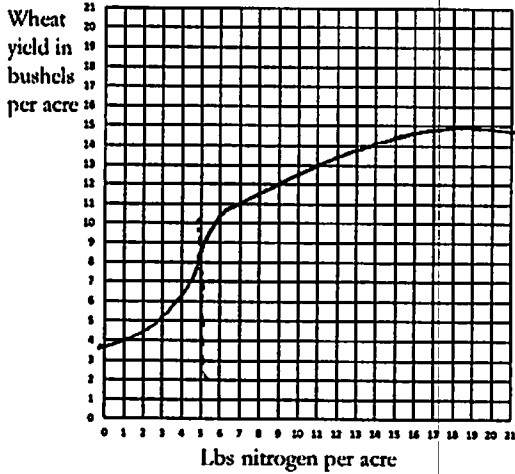
(13) In the figure below, draw a production function that exhibits

- Stage 2 between 0 and 12 lbs N per acre
- Stage 3 between 12 and 21 lbs N per acre



(12) In the figure below, draw a production function that exhibits

- Stage 1 between 0 and 5 lbs N per acre
- Stage 2 between 5 and 21 lbs N per acre



(14) In the figure below, draw a production function that exhibits

- Stage 1 between 0 and 21 lbs N per acre

