

NAME: _____

1. 080619a, P.I. A.A.39

The graph of the equation $x + 3y = 6$ intersects the y -axis at the point whose coordinates are

- [A] (0,6) [B] (0,2)
 [C] (6,0) [D] (0,18)

2. 080628a, P.I. A.A.39

Point $(k, -3)$ lies on the line whose equation is $x - 2y = -2$. What is the value of k ?

- [A] 8 [B] -6 [C] 6 [D] -8

3. 060721a, P.I. A.A.39

The graph of the equation $2x + 6y = 4$ passes through point $(x, -2)$. What is the value of x ?

- [A] 8 [B] 16 [C] -4 [D] 4

4. 080828a

A line with a slope of $\frac{1}{3}$ passes through the point $(3, 6)$. Which point also lies on this line?

- [A] (6,3) [B] (-6,3)
 [C] (7,6) [D] (-3,-3)

5. 080728a

Line segment AB has a slope of $\frac{3}{4}$. If the coordinates of point A are $(2, 5)$, the coordinates of point B could be

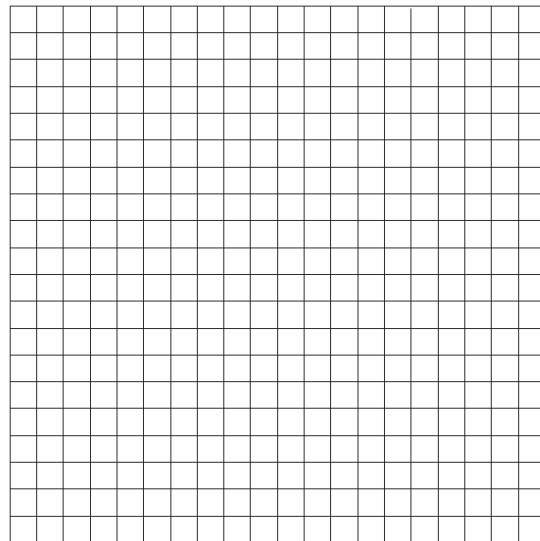
- [A] (5,9) [B] (6,8)
 [C] (6,2) [D] (-1,1)

6. 089929a

Line ℓ contains the points $(0, 4)$ and $(2, 0)$. Show that the point $(-25, 81)$ does or does not lie on line ℓ .

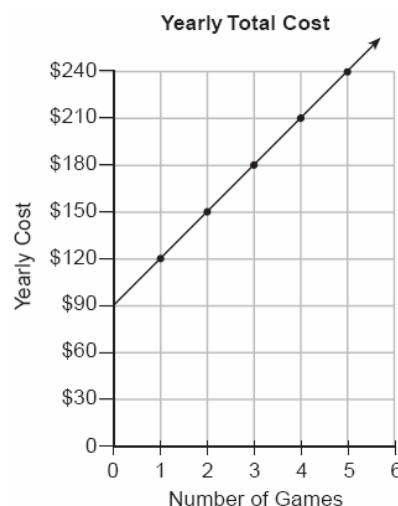
7. 010024a

A straight line with slope 5 contains the points $(1, 2)$ and $(3, K)$. Find the value of K . [The use of the accompanying grid is optional.]



8. 060025a

The accompanying graph represents the yearly cost of playing 0 to 5 games of golf at the Shadybrook Golf Course. What is the total cost of joining the club and playing 10 games during the year?



[1] B _____

[2] D _____

[3] A _____

[4] B _____

[5] B _____

[3] The student says the point does not lie on the line and an appropriate method is shown, such as slope of -2 does not work with the new point $(-25,81)$ and either other point $(0,4)$ or $(2,0)$, or accurately shows a graph where $(-25,81)$ is not on line ℓ .

[2] The student says the point does not lie on the line but gives an inappropriate explanation of slope.

or [2] The student tries to use slope concept but makes one computational mistake and gives an appropriate answer based on this mistake.

[1] Only the slope of -2 is found.

or [1] The correct diagram is drawn with no interpretation.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[6] incorrect procedure.

[2] 12 and an appropriate explanation is given.

[1] The student uses an appropriate method,

such as showing $\frac{k-2}{3-1} = 5$ or graphing of a

line through $(1,2)$ having a slope of 5, but the correct answer is not found.

or [1] 12 and no explanation is given.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[7] incorrect procedure.

[2] \$390 or 390 and appropriate work is shown, such as a numerical table or the equation $y = 30x + 90$ or the expression $90 + 30N$.

[1] Appropriate work is shown, but one computational error is made.

or [1] \$300 or 300 or a slope of 30 but appropriate work is shown.

or [1] \$390 or 390 but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[8] incorrect procedure.
