

A.A.39: Identifying Points on a Line: Determine whether a given point is on a line, given the equation of the line

- 1 Which linear equation represents a line containing the point $(1, 3)$?
 - 1) $x + 2y = 5$
 - 2) $x - 2y = 5$
 - 3) $2x + y = 5$
 - 4) $2x - y = 5$
- 2 Which point lies on the line whose equation is $2x - 3y = 9$?
 - 1) $(-1, -3)$
 - 2) $(-1, 3)$
 - 3) $(0, 3)$
 - 4) $(0, -3)$
- 3 Which point is on the line $4y - 2x = 0$?
 - 1) $(-2, -1)$
 - 2) $(-2, 1)$
 - 3) $(-1, -2)$
 - 4) $(1, 2)$
- 4 Which point lies on the graph represented by the equation $3y + 2x = 8$?
 - 1) $(-2, 7)$
 - 2) $(0, 4)$
 - 3) $(2, 4)$
 - 4) $(7, -2)$
- 5 Which set of coordinates is a solution of the equation $2x - y = 11$?
 - 1) $(-6, 1)$
 - 2) $(-1, 9)$
 - 3) $(0, 11)$
 - 4) $(2, -7)$
- 6 The graph of the equation $x + 3y = 6$ intersects the y -axis at the point whose coordinates are
 - 1) $(0, 2)$
 - 2) $(0, 6)$
 - 3) $(0, 18)$
 - 4) $(6, 0)$
- 7 Point $(k, -3)$ lies on the line whose equation is $x - 2y = -2$. What is the value of k ?
 - 1) -8
 - 2) -6
 - 3) 6
 - 4) 8
- 8 The graph of the equation $2x + 6y = 4$ passes through point $(x, -2)$. What is the value of x ?
 - 1) -4
 - 2) 8
 - 3) 16
 - 4) 4
- 9 If the point $(5, k)$ lies on the line represented by the equation $2x + y = 9$, the value of k is
 - 1) 1
 - 2) 2
 - 3) -1
 - 4) -2

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Answer Section

1 ANS: 3

$$2(1)+3=5$$

REF: 061007ia

2 ANS: 4

$$2x - 3y = 9$$

$$2(0) - 3(-3) = 9$$

$$0 + 9 = 9$$

REF: 081016ia

3 ANS: 1

$$4y - 2x = 0$$

$$4(-1) - 2(-2) = 0$$

$$-4 + 4 = 0$$

REF: 011021ia

4 ANS: 4

$$3y + 2x = 8$$

$$3(-2) + 2(7) = 8$$

$$-6 + 14 = 8$$

REF: 011218ia

5 ANS: 4

$$2(2) - (-7) = 11$$

REF: 081217ia

6 ANS: 1

$$y\text{-intercept} = \frac{C}{B} = \frac{6}{3} = 2$$

REF: 080619a

7 ANS: 1

$$x - 2y = -2$$

$$x - 2(-3) = -2$$

$$x = -8$$

REF: 080628a

8 ANS: 2

$$2x + 6y = 4$$

$$2x + 6(-2) = 4$$

$$2x = 16$$

$$x = 8$$

REF: 060721a

9 ANS: 3

$$2(5) + k = 9$$

$$10 + k = 9$$

$$k = -1$$

REF: 061304ia