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LINEAR EQUATIONS WORD PROBLEMS WORKSHEET

1. Which of the following equation have a positive slope:
 - a) $y = 2 - 3x$
 - b) $y = 3x - 2$
 - c) $x = 2 - 3y$
 - d) $-4y = x$

2. A linear equation always forms a straight line when plotted in a graph
 - a) True
 - b) False

3. $2y = 3x - 5$ is a linear equation.
 - a) True
 - b) False

4. Which of the following will have a slope greater than $y = 2x + 1$
 - a) $2y = 4x + 1$
 - b) $2y = 4x + 4$
 - c) $y = 4x + 1$
 - d) $4y = 4x + 1$

5. Which of the following will give you the standard linear equation
 - a) $y^2 = mx + c$
 - b) $y = mx + c$
 - c) $y^2 = m x^2 + c$
 - d) none of the above

6. Slope of the equation $9x = 6y - 1$ is _____.

7. For the linear equation $5y = x + 10$, the y-intercept is _____.
8. A car starts its journey from point "A" with an average speed of 60 miles/hr. How far it will be after 1.5 hours from the point "A".
9. Plot a graph using following points and calculate the rate of change. (1,3), (2,4), (3,5).
10. A tank contains 20 gallons of water. A tap is opened and more water is allowed into the tank at a rate of 5 gallons/ minute for 20 minutes. Calculate the amount of water inside the tank after 20 minutes.

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	b)
2)	a)
3)	a)
4)	c)
5)	b)
6)	(1.5)
7)	(2)
8)	(90 miles)
9)	(1)
10)	(120 gallons).