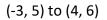
4.5 DISTANCE FORMULA WORKSHEET 20 POINTS

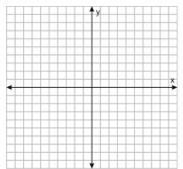
Name: _____

Date: _____

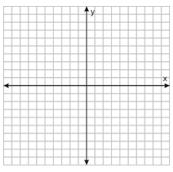
1) State the Distance formula: ______

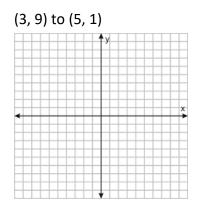
2) Using the coordinate plane, plot the points and find the distance using only the distance formula.

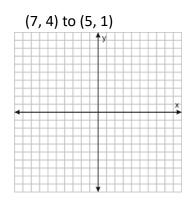




(1, 7) to (-2, -4)





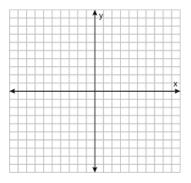


- 3) State the Pythagorean Theorem: _____
- 4) Solve the following using either the Pythagorean Theorem or the distance formula.

(3, 1) to (5, 3)

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					 +++

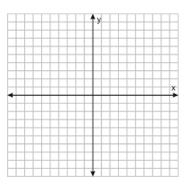
(8,2) to (3, 7)



(5, 5) to (7, 7)

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•		×
	•	

(3, 9) to (4, 7)

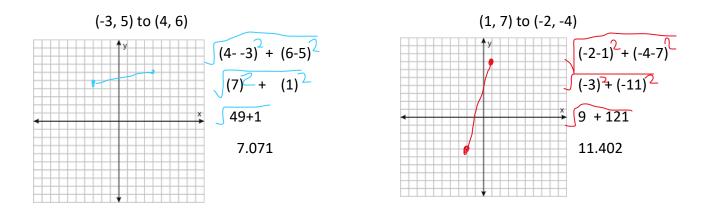


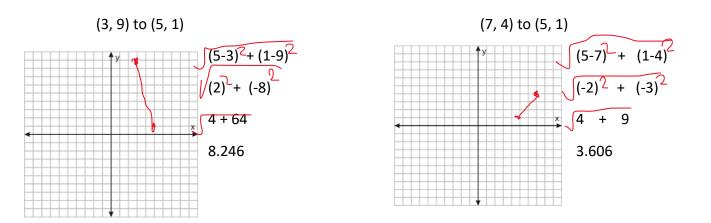
Name: Answer Key

Date: 18 points, 2 free points, 20 points total

1) State the Distance formula: =
$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 (1 point)

2) Using the coordinate plane, plot the points and find the distance using only the distance formula. (2 points per problem)





- 3) State the Pythagorean Theorem: a^{2+b²=c² (1 point)}
- 4) Solve the following using either the Pythagorean Theorem or the distance formula. (2 points per problem)

