# Coordinate Algebra <br> Review Worksheet for Unit 2 Quiz \#1 

Name $\qquad$ Class Period

You must know the following Properties of Equality and Properties of Operations and write an example of each according to the note handout:

Addition Property of Equality
Subtraction Property of Equality
Multiplication Property of Equality
Division Property of Equality
Substitution Property of Equality
Reflexive Property of Equality
Symmetric Property of Equality
Transitive Property of Equality
Commutative Property of Addition
Commutative Property of Multiplication
Associative Property of Addition
Associative Property of Multiplication
Distributive Property
Identity Property of Addition
Identity Property of Multiplication
Property of Zero
Additive and Multiplicative Inverses

1. Solve and state the reasons for the steps
$2(x+4)-5=5$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Solve for $x$ :
a) $\frac{2}{3} x-7=-1$
b) $-3 x+2>8$
3. Claire needs $\$ 3.35$ to by a Frappuccino. The only money she has is nickels and quarters. Write an equation for the different amounts of nickels, $n$, and quarters, $q$, she could use to buy the drink.
4. If she has 12 quarters, how many nickels does she need to buy the drink?
5. Coach Barton holds hitting lessons for $\$ 40$ a session for a 30 minute session. Write an equations for the amount of money he makes, $C$, for ,s, sessions.
A. How much money will he make in 5 hours?
B. How many hours will he have to coach to make $\$ 400$ ?
6. Solve for $x$.
a) $3^{x}+1=28$
b) $5^{2 x}=25^{x+2}$
c) $2\left(4^{x}\right)-3=29$
d) $5\left(10^{3 x-1}\right)=500000$
