## Keystone Review - Systems of Equations

Name: $\qquad$

1. Solve the following system of equations algebraically and check:

$$
\begin{aligned}
& x-4 y=16 \\
& y=1-x
\end{aligned}
$$

2. Solve the following system of equations for $x$ :

$$
\begin{aligned}
& 3 x+y=9 \\
& 2 x-y=6
\end{aligned}
$$

3. Solve the following system of equations for $x$ :

$$
\begin{aligned}
& 3 x+3 y=21 \\
& 6 x-3 y=6
\end{aligned}
$$

4. Which ordered pair is in the solution set of the system of inequalities shown in the graph?
A. $(0,0)$
B. $(1,5)$
C. $(-3,3)$
D. $(3,3)$


Date: $\qquad$
5. Which ordered pair is in the solution set of the system of inequalities shown in the accompanying graph?
A. $(2,5)$
B. $(2,-2)$
C. $(4,3)$
D. $(-4,3)$

6. The accompanying diagram represents the graphs of the inequalities $y \geq 3$ and $x<-2$.

Which ordered pair names a point in the solution set of this system of inequalities?
A. $(3,5)$
B. $(3,-5)$
C. $(-3,5)$
D. $(-3,-5)$

7. Which is a solution for the following system of equations?

$$
\begin{aligned}
& y=x^{2} \\
& y=-4 x+12
\end{aligned}
$$

A. $(-2,4)$
B. $(6,36)$
C. $(2,4)$
D. $(-6,24)$

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Keystone Review - Systems of Equations 11/01/2012
1.

Answer: $\quad x=4, y=-3$
2.

Answer: 3
3.

Answer: 3
4.

Answer: A
5.

Answer: B
6.

Answer: C
7.

Answer: $\quad$ C

