Mod 2 Test Review 2
Math 2

1) $f(x)=x^{2}+13 x-14$

Factored form:

Vertex form:

Vertex: $\qquad$
Equation of Axis of Sym. $\qquad$
$Y$-intercept: $\qquad$
x-intercept(s): $\qquad$
2) $f(x)=x^{2}-2 x+24$

Factored form:
Name $\qquad$ Period $\qquad$
3) $f(x)=\frac{1}{2}(x+4)(x-2)$
x-intercepts: $\qquad$
$y$-intercept: $\qquad$
Vertex: $\qquad$
Equation of Axis of sym. $\qquad$

Graph:

4) Factor: $x^{2}+10 x-75$
5) Factor: $4 x^{2}+8 x-5$

Vertex: $\qquad$
Eq. of Axis of Sym. $\qquad$
$y$-intercept: $\qquad$

x -intercepts $\qquad$
6) Factor: $3 x^{2}-75$
7) Use the graph to write the equation in:


Vertex form: $\qquad$ -
c) Vertex form: the equation in:
a) Factored form:
b) Standard form:

Factored form: $\qquad$
8) In a basic square, one side was increased by 1 and the other side was increased by 3, and finally, the area was multiplied by 3 . Write
d) Describe the transformation to obtain this graph from the parent graph $f(x)=x^{2}$.

Standard form: $\qquad$

