Name
Parabolas and Circles Worksheet

## Match the equation to the correct information and the correct graph.

1. $(x+2)^{2}+(y-3)^{2}=4$
A. center is $(0,0) ; r=3$
2. $\frac{1}{8}(y-10)=(x-7)^{2}$
B. center is $(-2,3) ; \mathrm{r}=2$
C. vertex is $(-1,-4)$; opens left; focus is $(-11 / 8,-4)$; directrix is $\mathrm{x}=-7 / 8$
D. vertex is ( $-2,-4$ ); opens down; focus is $(-2,-41 / 12)$; directrix $y=311 / 12$
E. center is $(6,6) ; r=4$
3. vertex is $(1,1)$; opens right; focus is $(11 / 8,1)$; directrix is x $=7 / 8$
4. $x^{2}+y^{2}=9$
F. center is $(-4,4) ; r=5$
G. vertex is $(7,10)$; opens up; focus is $(7,101 / 32)$; directrix is $y=931 / 32$
H. vertex is (1, 4); opens up; focus is ( $1,41 / 4$ ); directrix is y $=33 / 4$
I. center is $(1,-3) ; r=3$
J.

L.


N .

P.

R.

K.

M.

O.

Q.

S.


