NAME: $\qquad$ DATE: $\qquad$ PERIOD: $\qquad$
For each of the following, name two pairs of angles that are congruent.
1.

2.


Pairs of Angles:
Pairs of Angles:
$\qquad$ and $\qquad$
$\qquad$ and $\qquad$
$\qquad$ and $\qquad$

[^0]Find the measure of each angle if $\overleftrightarrow{\mathrm{MP}} \perp \stackrel{\rightharpoonup}{\mathrm{NR}}$ and $\angle \mathrm{PSQ} \cong \angle \mathrm{QSR}$.

3.
a. $\mathrm{m} \angle \mathrm{MSR}=$ $\qquad$
5. $\qquad$ |
4.
d. $\mathrm{m} \angle \mathrm{PSQ}=$ $\qquad$
b. $m \angle N S Q=$
6. $\qquad$
7.
c. $m \angle \mathrm{RSQ}=$ $\qquad$
f. $\quad \mathrm{m} \angle \mathrm{MSQ}=$
8.

Fill in the blanks for the following proofs.
Given: $\angle 1 \cong \angle 4$
Prove: $\angle 2 \cong \angle 3$


| Statements | Reasons |
| :--- | :--- |
| $9 . \angle 1 \cong \angle 4$ | 9. |
| $10 . \angle 1 \cong \angle 2, \quad \angle 3 \cong \angle 4$ | 10. |
| $11 . \angle 2 \cong \angle 3$ | 11. |

12. Give a value for each variable.


$$
\begin{aligned}
& x= \\
& y= \\
&
\end{aligned}
$$


13.



[^0]:    -ー - - - -

