GSE Geometry Similarity Review
Use the given information below to determine which similarity statement can be used to show that the
triangles are similar. (AA, SAS, SSS)
1.

Find the value of $x$ in each pair of similar figures.
11.

13. At a certain time of day, a tree that is 12 feet tall casts a shadow that is 8 feet long. Find the length of the shadow that is created by a 10-foottall basketball hoop at the same time of day.

15. Find the value of $x$.


$$
\begin{aligned}
& \frac{x}{5}=\frac{7}{x} \\
& \sqrt{x^{2}}=\sqrt{35} \\
& x=5.9
\end{aligned}
$$

17. Solve for $x$.

18. Solve for (?).

$\frac{x}{15}=\frac{8}{6}$
$x=20$
19. Solve for (?).

$$
\begin{array}{r}
\frac{x}{8}=\frac{6}{12} \\
x=4
\end{array}
$$

14. Sheila is standing near the Eiffel Tower in Paris, France. The shadow of the monument is 580 feet long, and Sheila's shadow is 3 feet long. If Sheila is 5 feet 6 inches tall, how tall is the monument?

15. Find the value of $x$.


$$
\begin{aligned}
& \frac{\sqrt{6}}{3}=\frac{x}{\sqrt{6}} \\
& \frac{6}{3}=\frac{3 x}{3} \\
& x=2
\end{aligned}
$$

18. Solve for MV.


Parallelograms Extra Practice 2

1. Find all the missing angles.

2. $T K=6$, find KV .

3. Solve for $x$.

$2 x-2=x+9$
$-x+2=-x+2$
$x=11$
4. Solve for x .

$76 x-1+104 x+1=180$
$\frac{180 x}{180}=\frac{180}{180}$

Name:
Block:
2. Find the missing side.

4. $B J=x+12, B D=x+24$, Find BJ.

6. Solve for $x$.


$$
x=2 x-6
$$

$$
x=6
$$

8. Find $\angle E$.


$$
\begin{aligned}
5 x-9 & =3 x+11 \\
x & =10
\end{aligned}
$$

## $x=1$

