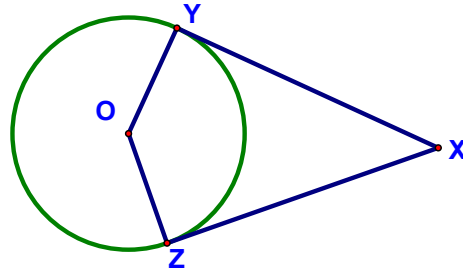3.

Given: ⊙O
$\overline{YO} \perp \overline{YX}$
$\overline{ZO} \perp \overline{ZX}$

Prove: $\overline{YX} \cong \overline{ZX}$

Statements	Reasons

7.

Prove that an altitude of an equilateral △ is also a median of the △.

Given:

Prove:

Statements	Reasons

10.

Given: ⊙P
$\overline{ST} \cong \overline{VT}$
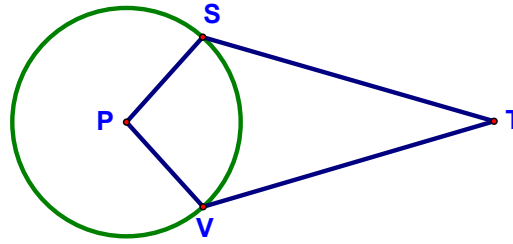
Prove: ∠PST ≅ ∠PVT

Statements	Reasons

13.

Given: △ABC & △ABD standing on plane p
$\overline{AB} \perp \overline{BC}$; $\overline{AB} \perp \overline{BD}$
$\overline{AC} \cong \overline{AD}$
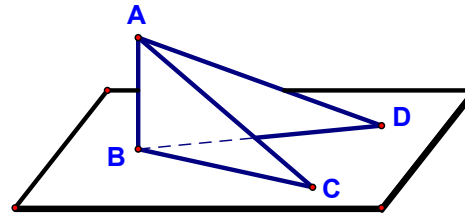
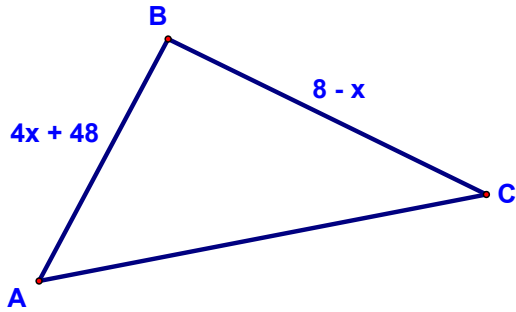**Prove:** If $\overline{CD}$ is drawn, △BCD will be isosceles

Statements	Reasons

14.

m∠A > m∠C

Find the restrictions on the value of x

B

8 - x

4x + 48

C

A

18.

a. **Which of the triangles below are ≅? Why?**

b. **If two of the △s are selected at random, what is the probability that they are ≅?**

A

B

C

D

E