### 8.4 Congrevere P Proportion in $\sim \Delta s$

Using the given information, tell which triangles are similar. (The diagram is not drawn to scale.)

1. $\frac{A B}{D F}=\frac{A C}{D E} ; \angle A \cong \angle D \triangle A B C \sim \triangle D F E$ A
2. $\frac{A B}{F D}=\frac{B C}{D E}=\frac{A C}{F E} \triangle A B C \sim \triangle F D E$
3. $\angle A \cong \angle E ; \angle B \cong \angle F \triangle A B C \sim \triangle E F D^{B}$
4. $A B=A C ; D E=D F ; \angle A \cong \angle D \triangle A B C \sim \triangle D E F$ Complete each statement with

the word ways, sometimes, or never.
5. Two equilateral triangles are allays similar.
6. Two similar triangles are Sometimes congruent.
7. Two congruent triangles are always similar.
8. Two isosceles right triangles are $\qquad$ always similar. ar.

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\text { 9. Find the values of } x \text { and } y \text {. Refer to the figure. }
$$ $x=8.75$ $y=$ $\qquad$ $7{ }^{x}=3 x$

