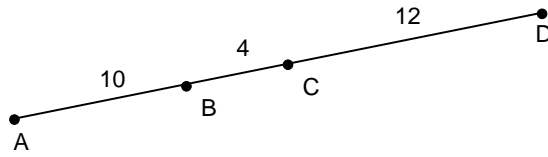


Name _____ Block _____

Ch 7 Review

Express the ratio in simplest form.



- 1) $AB:CD$ 2) $BC:CD$ 3) $AB:AC$ 4) $BC:AB:CD$

5) If $\frac{a}{b} = \frac{c}{d}$, then which of the following are true?

- a. $\frac{a}{c} = \frac{b}{d}$ b. $\frac{c}{b} = \frac{a}{d}$ c. $\frac{d}{c} = \frac{b}{a}$ d. $\frac{a+b}{b} = \frac{c+d}{d}$

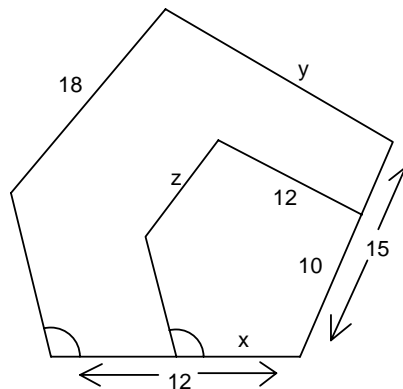
Solve for x.

- 6) $\frac{x}{3} = \frac{2}{5}$ 7) $a:3 = 7:4$ 8) $\frac{3x}{7} = \frac{2}{10}$
- 9) $\frac{x+2}{x+3} = \frac{4}{5}$ 10) $\frac{2x+1}{4x-1} = \frac{2}{3}$ 11) $\frac{x+3}{2} = \frac{2x-1}{3}$

Tell whether the two polygons are always, sometimes, or never similar.

- 12) Two rhombuses 13) Two equilateral triangles
- 14) Two regular pentagons 15) Two rectangles
- 16) Two squares 17) Two isosceles triangles

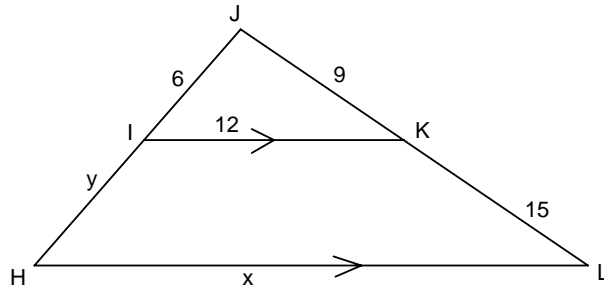
Find x, y, z given two similar polygons.



18) $\triangle IJK \sim \triangle$ _____

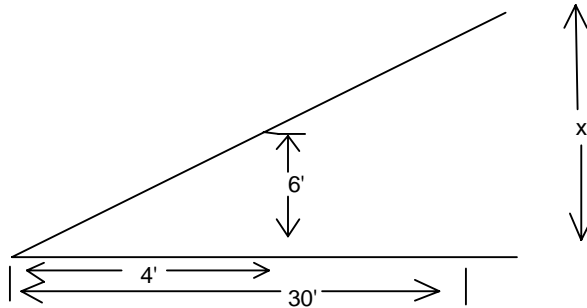
19) $\angle JIK$ _____ $\angle JHL$

20) Find x .



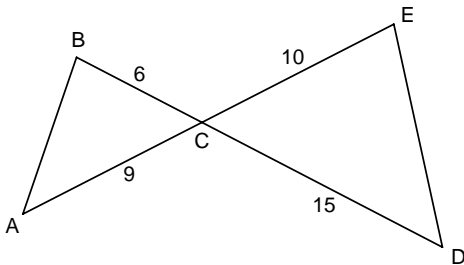
21) Find y

22) What is the height of the tree?

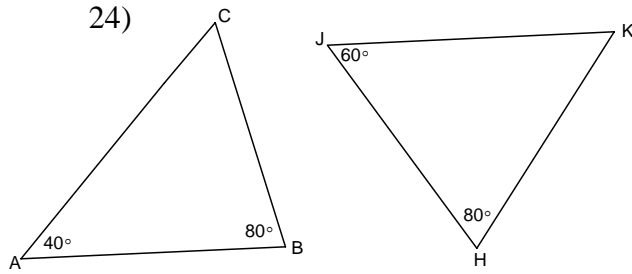


Name the similar triangles. State the postulate or theorem.

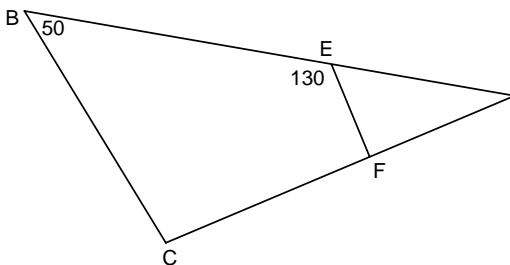
23)



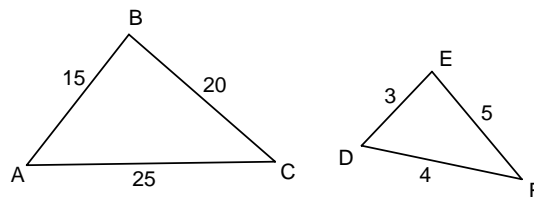
24)



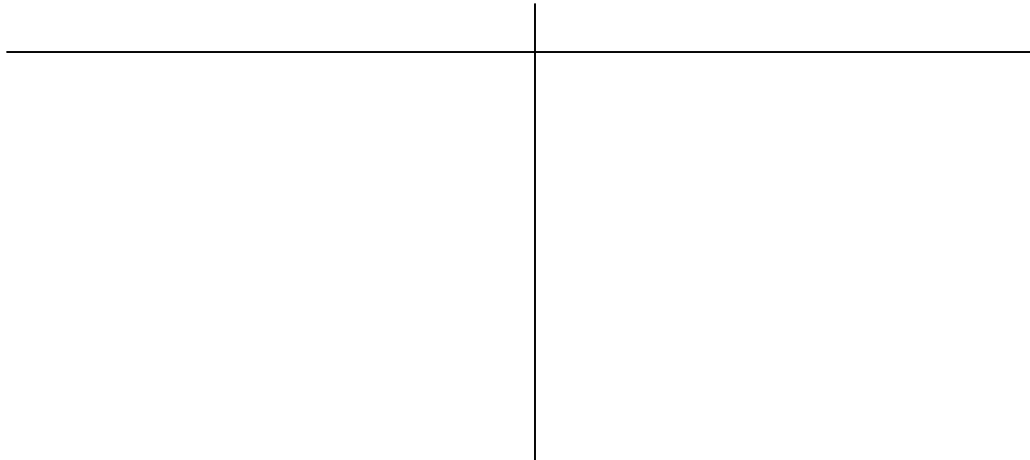
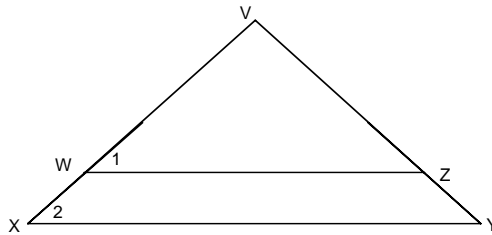
25)



26)

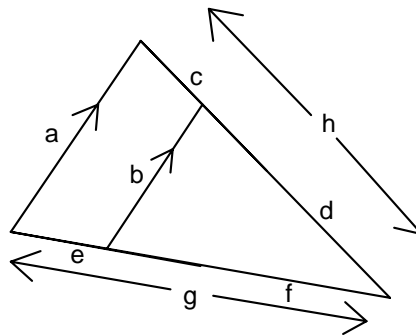


- 27) Given: $\frac{VW}{VX} = \frac{VZ}{VY}$
 Prove: $\overline{WZ} \parallel \overline{XY}$

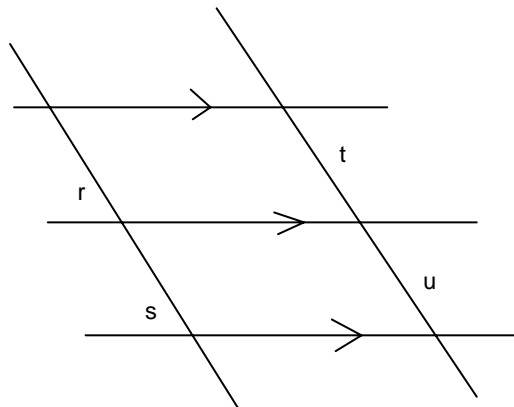


Tell whether the proportion is correct.

- 28) a. $\frac{e}{c} = \frac{f}{d}$
 b. $\frac{f}{c} = \frac{e}{d}$
 c. $\frac{d}{h} = \frac{a}{b}$
 d. $\frac{f}{g} = \frac{h}{d}$

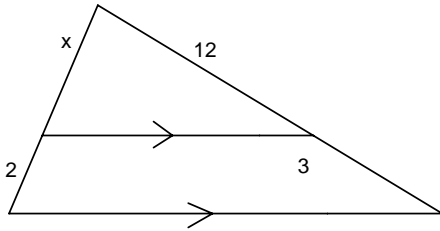


- 29) a. $\frac{r}{s} = \frac{t}{u}$
 b. $\frac{r}{t} = \frac{s}{u}$
 c. $\frac{r}{r+s} = \frac{u}{t+u}$
 d. $\frac{u}{t} = \frac{s}{r}$

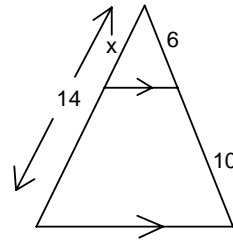


Find x .

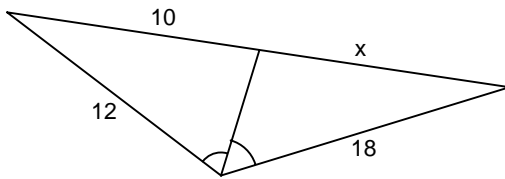
30)



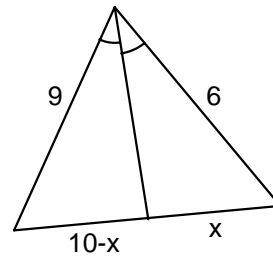
31)



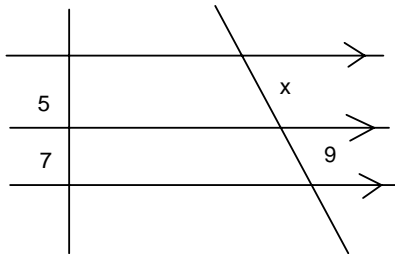
32)



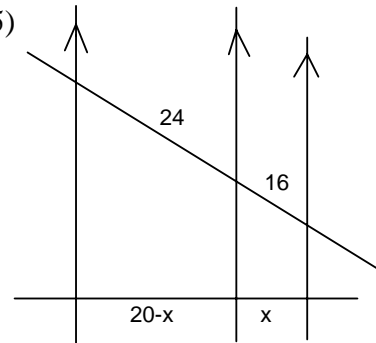
33)



34)



35)



Complete

36) $AB = 14, BC = 21, AD = 8, DC =$ _____

37) $AB = 8, BC = 10, AD = x, DC = 18$

Find x

