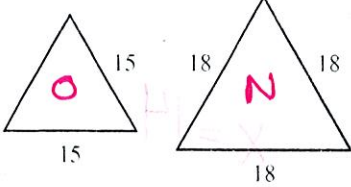
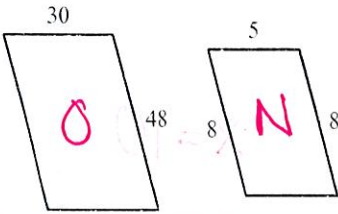


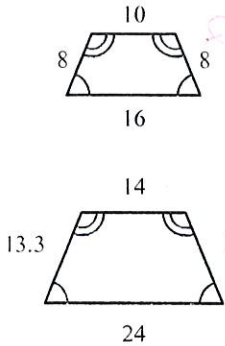
3.5 - Quiz 3 REVIEW

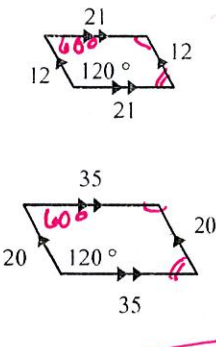
The polygons in each pair are similar. Find the scale factor from left to right.

1)   $\frac{18}{15} = \frac{6}{5}$

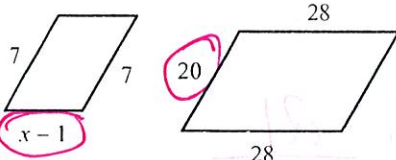
2)   $\frac{8}{48} = \frac{1}{6}$

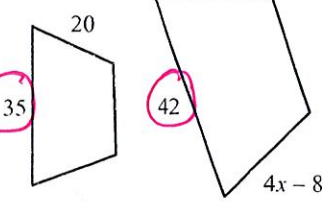
State if the polygons are similar.

3)   $\angle$ 's are  $\cong$   
 $\frac{13.3}{8} \neq \frac{13.3}{10} \neq \frac{14}{16}$   
 Not similar

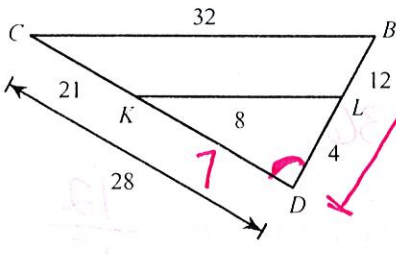
4)   $\angle$ 's are  $\cong$   
 $\frac{20}{12} = \frac{20}{12} = \frac{35}{21} = \frac{35}{21}$   
 Similar  $\frac{5}{3} = \frac{5}{3} = \frac{5}{3} = \frac{5}{3}$

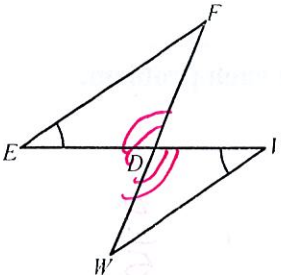
Solve for x. The polygons in each pair are similar.

5)   $\frac{28}{7} = \frac{20}{x-1}$   
 $140 = 28x - 28$   
 $6 = x$

6)   $\frac{42}{35} = \frac{4x-8}{20}$   
 $x = 8$   
 $140x - 280 = 840$

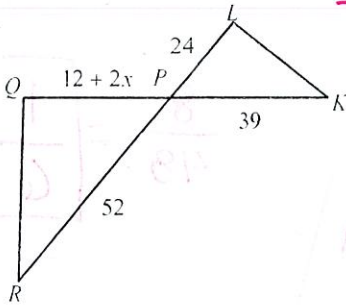
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

7)   $\frac{4}{16} = \frac{8}{28} = \frac{8}{32}$   
 $\frac{1}{4} = \frac{1}{4} = \frac{1}{4}$   
 $\triangle DCB \sim \triangle DKL$  by SSS or SAS

8)   $\triangle DEF \sim \triangle DVW$  by AA

Solve for  $x$ . The triangles in each pair are similar.

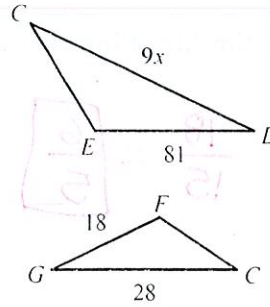
9)  $\triangle PQR \sim \triangle PLK$



$$\frac{12 + 2x}{52} = \frac{24}{39}$$

$$x = 10$$

10)  $\triangle CDE \sim \triangle CGF$

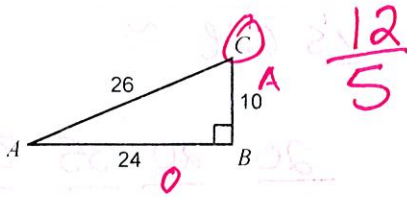


$$\frac{81}{9x} = \frac{18}{28}$$

$$x = 14$$

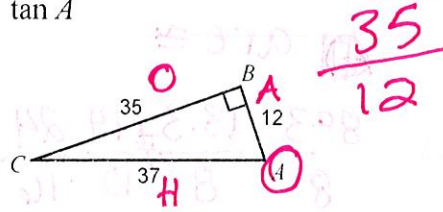
Find the value of each trigonometric ratio.

11)  $\tan C$



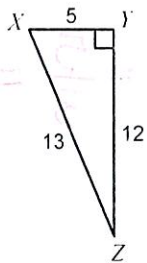
$$\frac{12}{5}$$

12)  $\tan A$



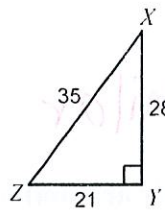
$$\frac{35}{12}$$

13)  $\sin Z$



$$\frac{5}{13}$$

14)  $\cos X$



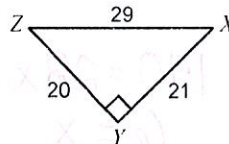
$$\frac{4}{5}$$

15)  $\sin Z$



$$\frac{9}{41}$$

16)  $\cos X$



$$\frac{21}{29}$$

Use the co-functions to solve each problem.

17)  $\cos 25^\circ = \sin 65^\circ$

19) If  $\sin \theta = 4/5$ , then  $\cos (90 - \theta) = \frac{4}{5}$

21) If  $\tan \theta = 7/24$ , then  $\tan (90 - \theta) = \frac{24}{7}$

18)  $\sin 54^\circ = \cos 36^\circ$

20) If  $\cos \theta = 12/13$ , then  $\sin (90 - \theta) = \frac{12}{13}$

22) If  $\tan \theta = 40/9$ , then  $\tan (90 - \theta) = \frac{9}{40}$