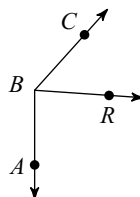


EOC Mega Review

Points A, B, and C are collinear. Point B is between A and C. Find the length indicated.

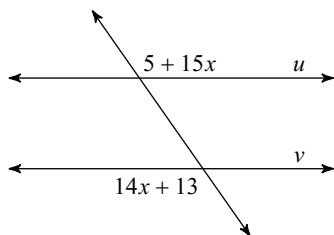
1) Find AB if $BC = 12$, $AC = 19 + x$, and $AB = 2x + 7$. 7

2) Find $m\angle CBR$ if $m\angle CBR = 11x - 3$, $m\angle CBA = 27x + 3$, and $m\angle RBA = 86^\circ$. 52^\circ



Find the value of x that makes lines u and v parallel.

3) 8



Find the other endpoint of the line segment with the given endpoint and midpoint.

4) Endpoint: $(-1, -6)$, midpoint: $(-2, -3)$ $(-3, 0)$

Find the slope of a line perpendicular to each given line.

5) $10 + 3x = 5y$ $-\frac{5}{3}$

6) $0 = -2y - 10 - 7x$ $\frac{2}{7}$

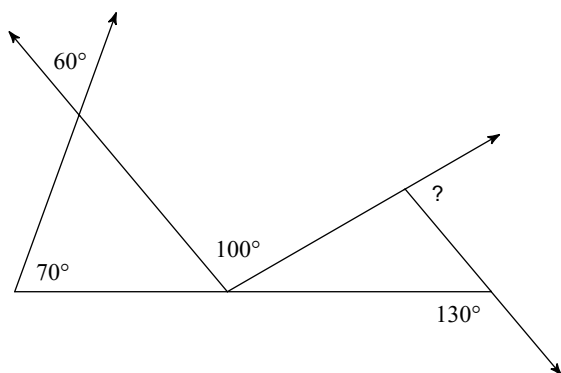
Write the slope-intercept form of the equation of the line described.

7) through: $(-2, 3)$, perp. to $y = \frac{1}{3}x - 5$ $y = -3x - 3$

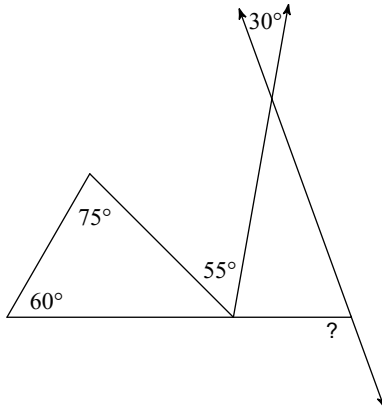
8) through: $(-1, 1)$ and $(0, -5)$ $y = -6x - 5$

Find the measure of each angle indicated.

9) 80^\circ

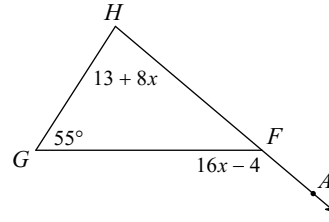


10)



110°

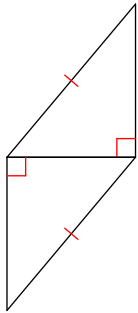
11) Find $m\angle AFG$.



140°

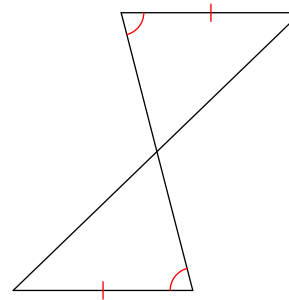
State if the two triangles are congruent. If so, give the shortcut.

12)



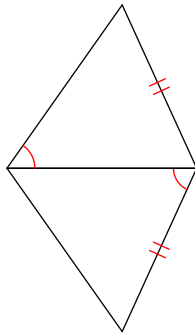
HL

13)



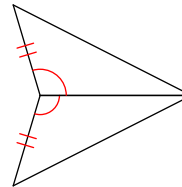
AAS

14)



Not congruent

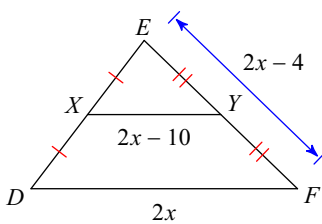
15)



SAS

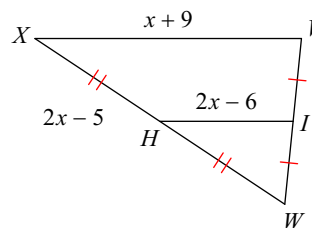
Find the missing length indicated.

16) Find DF



20

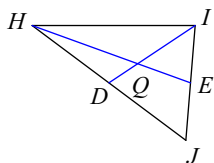
17) Find VX



16

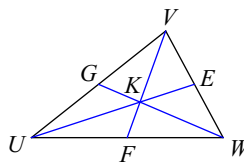
Each figure shows a triangle with one or more of its medians.

18) Find HQ if $HE = 13.5$



9

19) Find WG if $KG = 7$



21

Order the angles in each triangle from smallest to largest.

20) In $\triangle VWX$

$WX = 4$

$VX = 5$

$VW = 7$

$\angle V, \angle W, \angle X$

21) In $\triangle CDE$

$DE = 4$

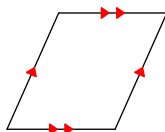
$CE = 3$

$CD = 5$

$\angle D, \angle C, \angle E$

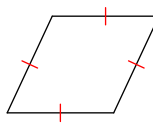
State the most specific name for each figure.

22)



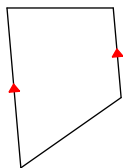
parallelogram

23)



rhombus

24)



trapezoid

25)



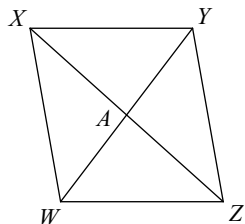
rectangle

Find the measurement indicated in each parallelogram.

26) $XA = 2x + 8$

$AZ = 4x - 2$

Find XZ

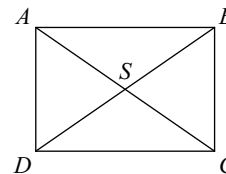


36

27) $BS = 3x - 5$

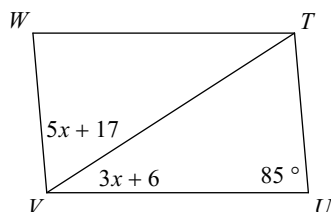
$BD = 5x - 3$

Find BD



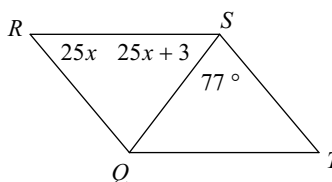
32

28) Find $m\angle UTW$



95°

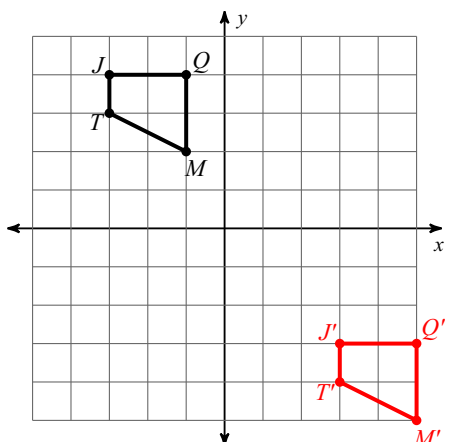
29) Find $m\angle RSQ$



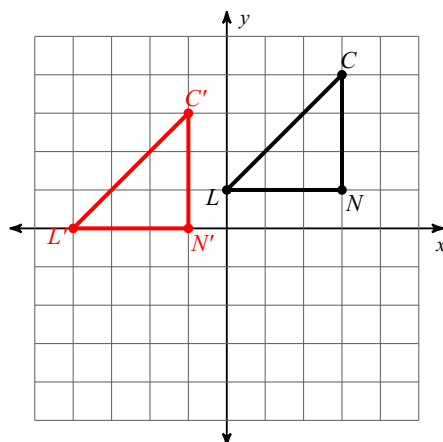
53°

Graph the image of the figure using the transformation given.

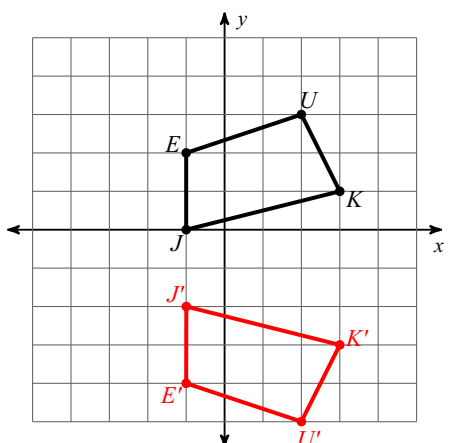
30) translation: $(x, y) \rightarrow (x + 6, y - 7)$



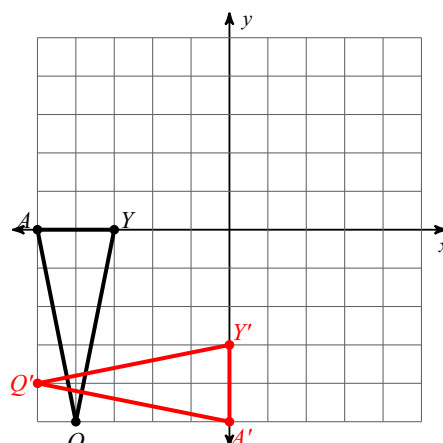
31) translation: $(x, y) \rightarrow (x - 4, y - 1)$



32) reflection across $y = -1$

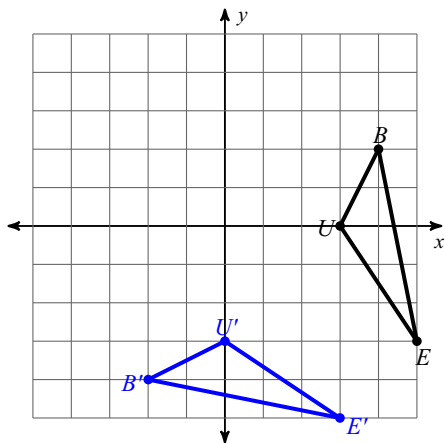


33) reflection across $y = x$



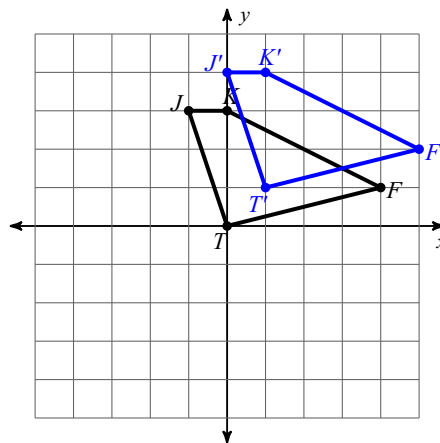
Write a rule in words and/or arrow notation to describe each transformation.

34)



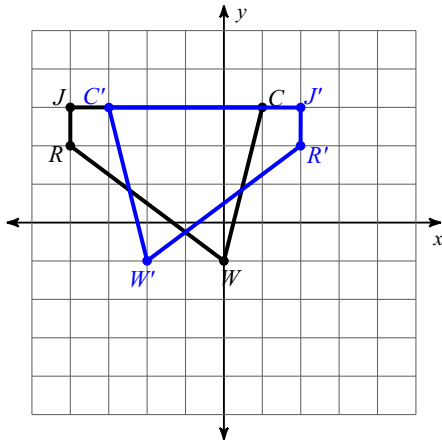
reflection across $y = -x$

35)



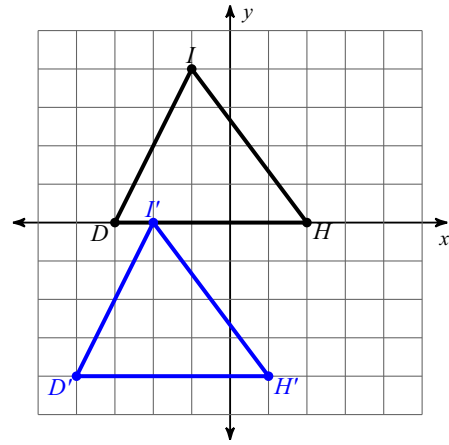
translation: $(x, y) \rightarrow (x + 1, y + 1)$

36)



reflection across $x = -1$

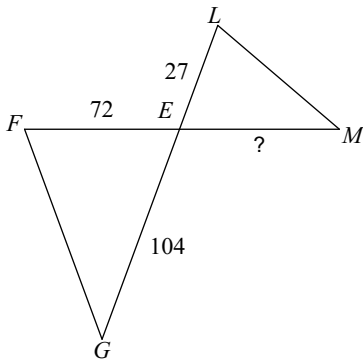
37)



translation: $(x, y) \rightarrow (x - 1, y - 4)$

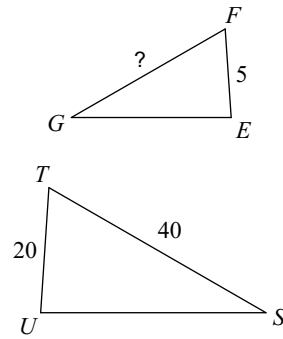
Find the missing length. The triangles in each pair are similar.

38)



39

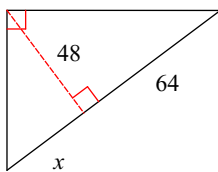
39)



10

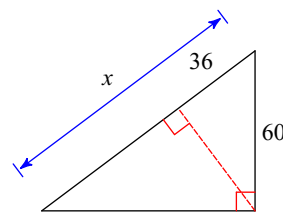
Find the missing length indicated.

40)



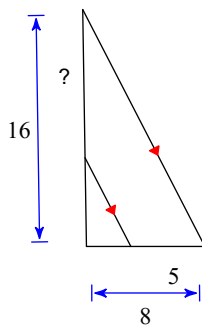
36

41)



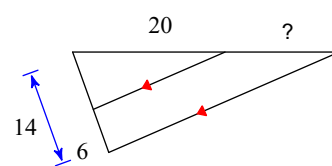
100

42)



10

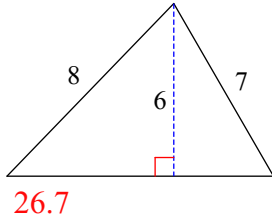
43)



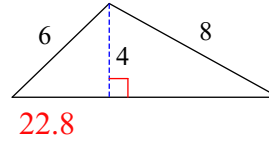
15

Find the area of each triangle to the nearest tenth.

44)

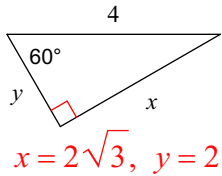


45)

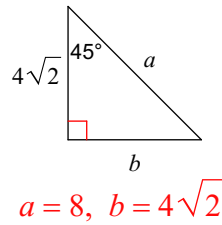


Find the missing side lengths. Leave your answers as radicals in simplest form.

46)

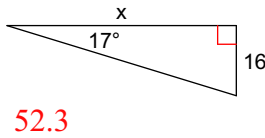


47)

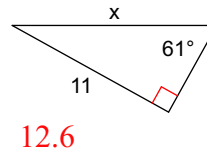


Find the missing side. Round to the nearest tenth.

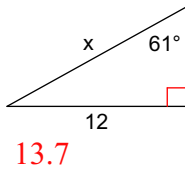
48)



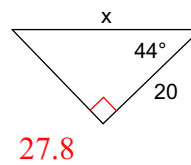
49)



50)

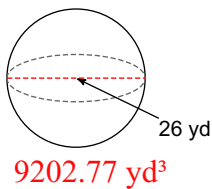


51)

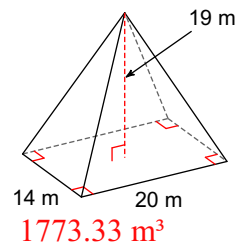


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

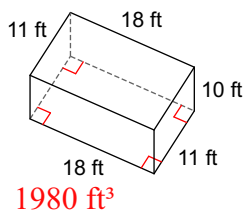
52)



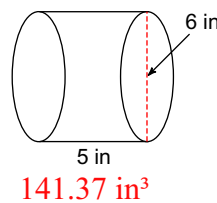
53)



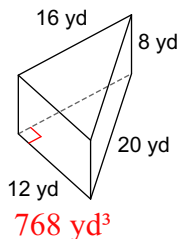
54)



55)



56)



57)

