Cumulative Review #042022 Name_____

Period and Class_____

Solve each equation.

1) $\frac{m-10}{2} = -13$

2) $6 = 2 - \frac{n}{5}$

3) $5(2x + 7) + 2 = 97$

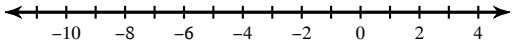
4) $9 - 8|v + 3| = -39$

Solve each inequality.

5) $3(p - 10) > 21$

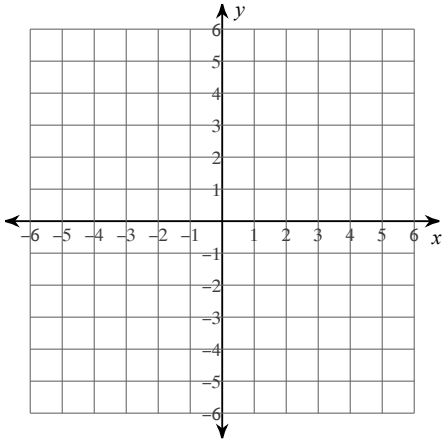
Solve each inequality and graph its solution.

6) $4|x + 3| + 5 < 25$

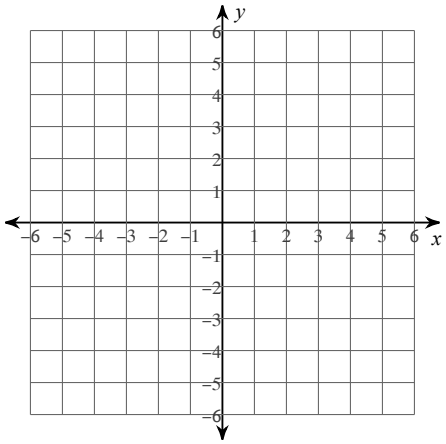


Sketch the graph of each line.

7) $y = \frac{4}{5}x - 1$



8) $4x + 5y = 20$



Write the point-slope form of the equation of the line through the given point with the given slope.

9) through: $(3, 4)$, slope $= \frac{6}{7}$

Write the point-slope form of the equation of the line through the given points.

10) through: $(5, 3)$ and $(2, -4)$

Solve the system of linear equations by the method of your choice.

11) $8x + y = -7$
$2x - 3y = 21$

12) $-10x - 14y = -5$
$5x + 7y = 1$

Find the distance between each pair of points.

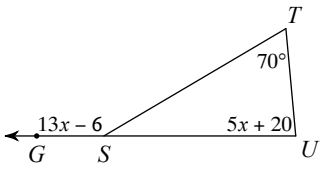
13) $(-4, 4)$, $(-1, 2)$

Find the midpoint of the line segment with the given endpoints.

14) $(0, -3), (4, -4)$

Solve for *x*.

15)



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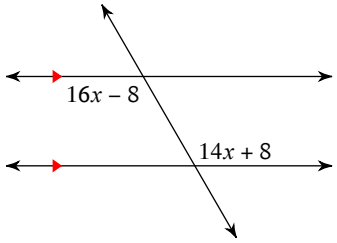
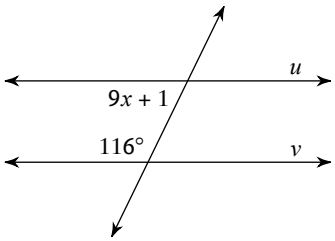


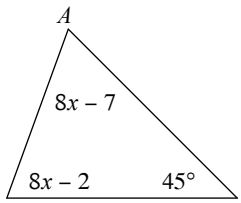
Find the value of *x* that makes lines u and v parallel.

17)



Find the measure of angle A.

18)



Complete each congruence statement by naming the corresponding angle or side.

19) $\triangle GHF \cong \triangle STU$

$\angle F \cong ?$

20) $\triangle TSR \cong \triangle FGH$

$\angle S \cong ?$

21) $\triangle QRS \cong \triangle XZY$

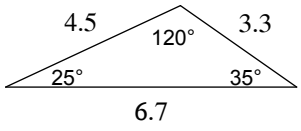
$\overline{SQ} \cong ?$

22) $\triangle GHF \cong \triangle STU$

$\overline{FG} \cong ?$

Classify each triangle by its angles and sides.

23)



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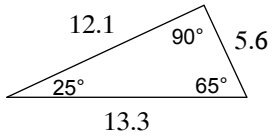

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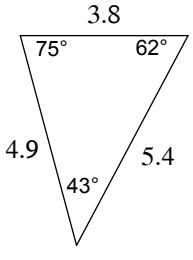

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