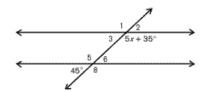
Thanksgiving Review-Show all work

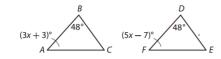
- 1. Find the distance between (-2, -4) and (2, 0). Leave your answer in simplest radical form.
- 2. Find the midpoint of (-4, 3) and (10, -2).
- 3. Write the equation of a line parallel to $y = \frac{3}{4}x + 5$ through (4, 1).
- 4. Write the equation of a line perpendicular to y = -2x + 1 through (-2, -3).
- 5. The ray \overrightarrow{GJ} is the angle bisector of $\angle FGH$ and $m \angle FGH = 75^{\circ}$. Find $m \angle FGJ$.
- 6. Find the vertices of ΔLMN translated along the vector $\langle -3, 2 \rangle$ with L(-2,1), M(-2,-3), and N(1,-4).
- 7. Find the vertices of ΔXYZ reflected across the line y = x with X(1,5), Y(-2,2), and Z(-5,7).
- 8. Find the vertices of $\triangle ABC$ rotated 180° around the origin with A(1,1), B(2,3), and C(3,1).
- 9. $\triangle ABC$ is in the first quadrant and translated along $\langle 2,1 \rangle$ and reflected across the x –axis. Which quadrant will the triangle be in after the first transformation? After the second transformation?

For 10-11, use the diagram to the right. 10. Find $m \angle 6$. 11. Find x.

12. Find x. (x-10)^o

13. $\triangle ABC \cong \triangle FDE$. Determine the value of *x*.





14. Use the pythagorean theorem. a = 1, b = 7, c = ?. Leave you answer in simplest radical form.

15. Use the pythagorean theorem. a = ?, b = 2, c = 10. Leave you answer in simplest radical form.

Find each angle measure

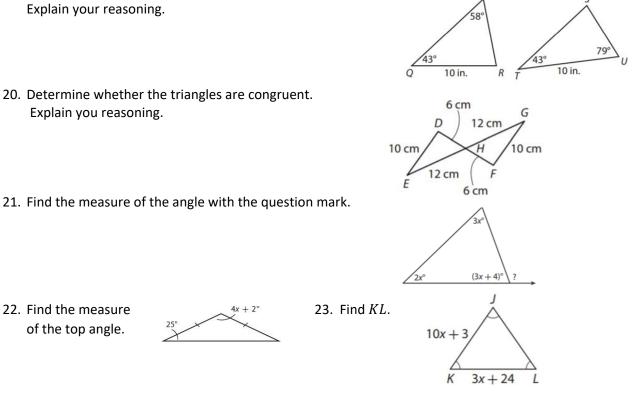
16. x = 17. y =

18. z =

19. Determine whether the triangles are congruent. Explain your reasoning.

22. Find the measure

of the top angle.



24. Find the sum of the measures of the interior angles of a 13-sided polygon.

25. A polygon has an interior angle sum of 3060°. How many sides must the polygon have?

