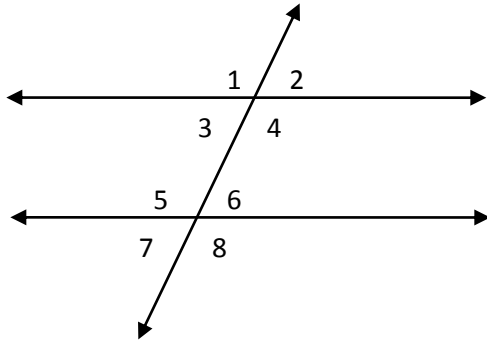


Name: _____

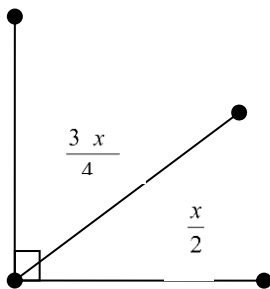
Points: _____

1. In the figure $2 = (x^2)^\circ$ and $7 = (x+20)^\circ$. Find the eight angles.

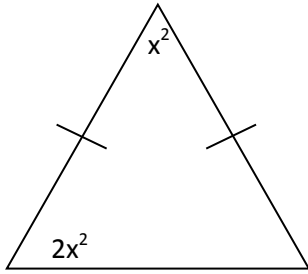


2. In triangle $\triangle ABC$, $\angle A = (x-20)^\circ$, $B = \frac{x+30}{3}^\circ$, $C = \frac{x}{4}^\circ$. Find x and the three angles.

3. Find x and the measure of each angle.



4. Solve for x and find the measure of each angle.



5. A rectangle has length $3\sqrt{6} + \sqrt{2}$ cm and width $3\sqrt{6} - \sqrt{2}$ cm. Find the perimeter and the area of the rectangle.

6. If $BC=3x+7$, $AD=x$ and the area of $\triangle ABC$ is 24, find x and BC .

