

**Algebra 2**  
**12.1 Homework #1**

**Name:** \_\_\_\_\_

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1.	3.	
5.	6.	7.
8.	9.	10.
21.	22.	23.
24.	25.	26.

29.	30.	31.
32.	33.	34.
37.	39.	
40.	41.	42.
43.	44.	45.
50.	52.	

## Algebra 2

Name: \_\_\_\_\_ **KEY** \_\_\_\_\_

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$\sin B = \frac{4}{5}$ $\csc B = \frac{5}{4}$		$\sin B = \frac{\sqrt{33}}{7}$ $\csc B = \frac{7\sqrt{33}}{33}$	
<b>1.</b> $\cos B = \frac{3}{5}$ $\sec B = \frac{5}{3}$		<b>3.</b> $\cos B = \frac{4}{7}$ $\sec B = \frac{7}{4}$	
$\tan B = \frac{4}{3}$ $\cot B = \frac{3}{4}$		$\tan B = \frac{\sqrt{33}}{4}$ $\cot B = \frac{4\sqrt{33}}{33}$	
5. $x \approx 25.4$	6. $x \approx 7.7$	7. $x \approx 8.3$	
8. $x \approx 61.9$	9. $x \approx 25.4$	10. $x \approx 68.0$	
21. $x \approx 12.7$	22. $x \approx 3.6$	23. $x \approx 10.4$	
24. $x \approx 32.9$	25. $x \approx 8.7$	26. $x \approx 5.1$	
29. $x = 30$		30. $x \approx 67.2$	
32. $x \approx 55.2$		33. $x \approx 32.5$	
37.		39.	
$x \approx 21.9,$ $y \approx 20.8$		$x \approx 19.3,$ $y \approx 70.7$	
40. $m\angle A \approx 80.9^\circ$	41. $m\angle N \approx 54.9^\circ$	42. $m\angle X \approx 86.2^\circ$	
43. $m\angle T \approx 20.5^\circ$	44. $m\angle G \approx 7.1^\circ$	45. $m\angle Z \approx 11.5^\circ$	
$m\angle B = 54^\circ$ <b>50.</b> $b \approx 16.5$ $c \approx 20.4$		$m\angle A \approx 28.1^\circ$ <b>52.</b> $m\angle B = 61.9^\circ$ $b = 15$	