## Apprenticeship Math 12 ASSIGNMENT: Mixed Trig Ratios

Name:	

Date:

1. Find the length of the indicated side (x). Round your answers to the nearest tenth.





2. Find the indicated angle (T). Round your answers to the nearest degree.







For each of the following questions, draw and label a diagram. Show your work.

3. How far from the base of a flagpole must a support wire be fixed if the wire is 12 metres long and it makes an angle of 63° with the ground? Round your answer to the nearest hundredth.

4. A ladder is leaning against the side of a house. The bottom of the ladder is 5 feet away from the house and the top of the ladder reaches a window that is 12 feet above the ground. What angle does the ladder make with the ground? Round your answer to the nearest degree.

5. A weather balloon is attached to a 15-metre string that makes an angle of 35° with the ground. How high above the ground is the weather balloon? Round your answer to the nearest tenth.

	m	5.
	29،	<b>ל</b>
	m 24.2	.6
°21 (†	mɔ t.ɛt (t	
°0ð (ə	mɔ ɬ.0٢ (ə	
°7£ (b	mɔ 0.92 (b	
°24 (ɔ	mɔ ð.\ (ɔ	
°£7 (d	mɔ 1.61 (d	
°ҮЅ (вЅ	mɔ ð.4 (s	٦.