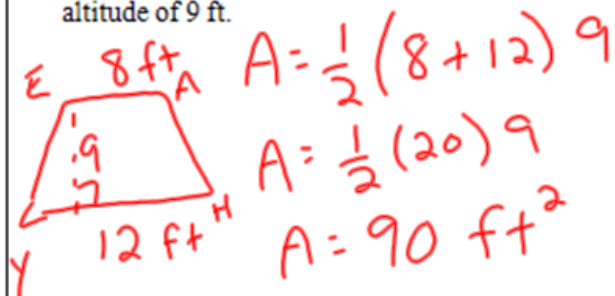


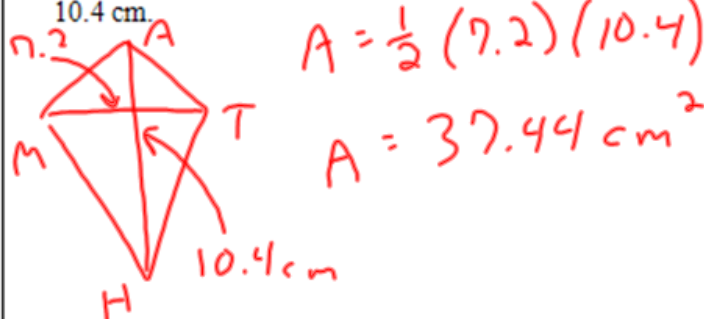
9.2 PRACTICE

Draw the following. Find the area. Label your answer!

1. $\triangle YEAH$ with a base of 12 ft, a base of 8 ft and altitude of 9 ft.

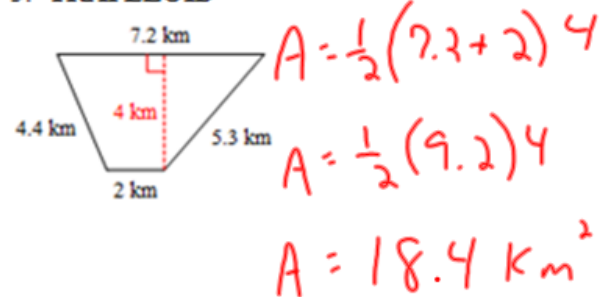


2. Kite $MATH$ with a diagonal of 7.2 cm and a diagonal of 10.4 cm.

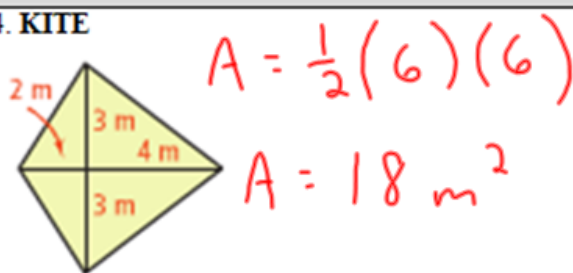


Find the area of each. Label your answer!

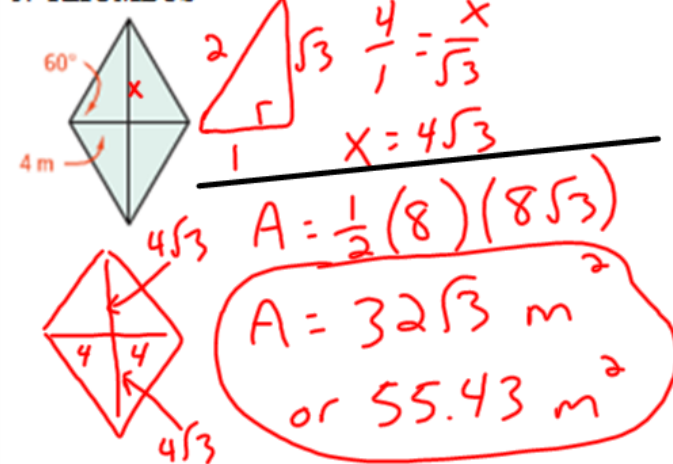
3. TRAPEZOID



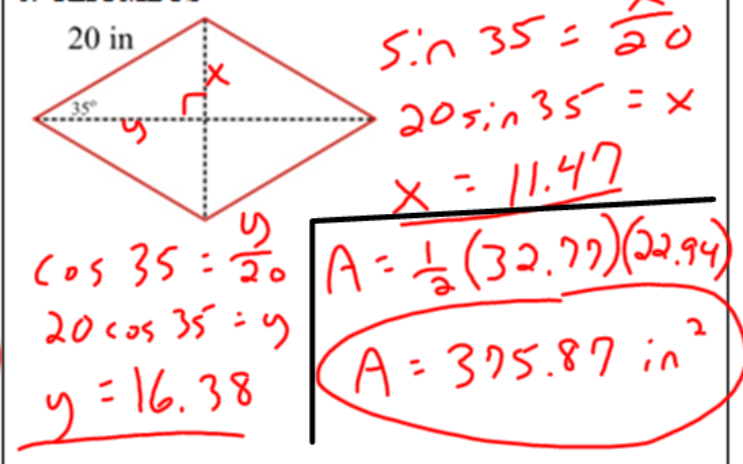
4. KITE



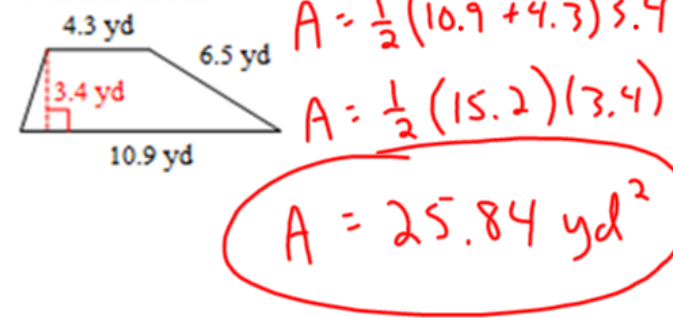
5. RHOMBUS



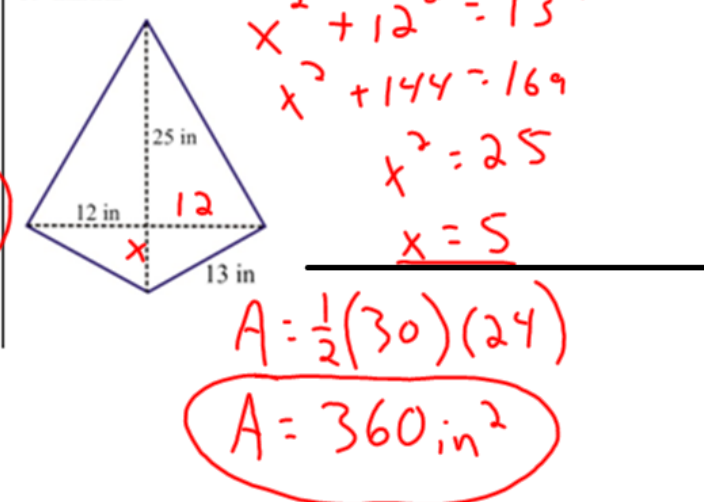
6. RHOMBUS



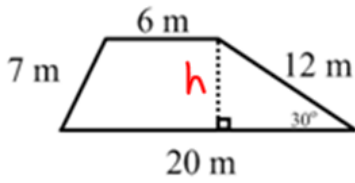
7. TRAPEZOID



8. KITE



9. TRAPEZOID



$$\sin 30 = \frac{h}{12}$$

$$12 \sin 30 = h$$

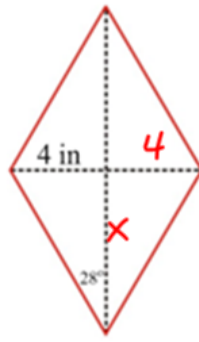
$$h = 6$$

$$A = \frac{1}{2}(6 + 20)6$$

$$A = \frac{1}{2}(26)6$$

$$A = 78 \text{ m}^2$$

10. RHOMBUS



$$\tan 28 = \frac{4}{x}$$

$$\frac{x \tan 28}{\tan 28} = \frac{4}{\tan 28}$$

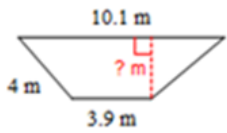
$$x = 7.52$$

$$A = \frac{1}{2}(8)(15.04)$$

$$A = 60.16 \text{ in}^2$$

Find the missing measurement. Round to the nearest tenth.

11. TRAPEZOID



Area = 21 m²

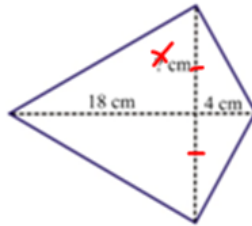
$$21 = \frac{1}{2}(10.1 + 3.9)h$$

$$21 = \frac{1}{2}(14)h$$

$$\frac{21}{7} = \frac{7h}{7}$$

$$3 = h$$

12. KITE



Area = 182 cm²

$$182 = \frac{1}{2}(22)(2x)$$

$$182 = 11(2x)$$

$$\frac{182}{22} = \frac{22x}{22}$$

$$x = 8.27 \text{ cm}$$

13. TRAPEZOID



Area = 62.6 yd²

$$62.6 = \frac{1}{2}(4.5 + x)8.7$$

$$62.6 = \frac{1}{2}(8.7)(4.5 + x)$$

$$62.6 = 4.35(4.5 + x)$$

$$62.6 = 19.575 + 4.35x$$

$$-19.575 \quad -19.575$$

$$\frac{43.025}{4.35} = \frac{4.35x}{4.35}$$

$$9.89 = x$$

yd