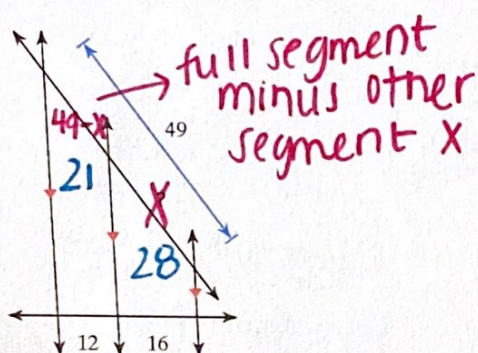


Practice Assignment #8

Date _____ Period _____

Find the missing length indicated.

1)



$$\frac{49-x}{12} = \frac{x}{16}$$

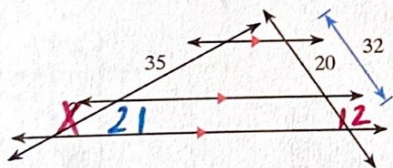
$$16(49-x) = 12x$$

$$784 - 16x = 12x$$

$$784 = 28x$$

$$\boxed{x=28}$$

3)

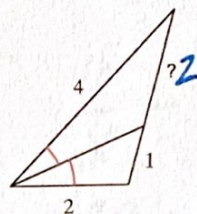


$$\frac{35}{20} = \frac{x}{12}$$

$$420 = 20x$$

$$\boxed{x=21}$$

2)

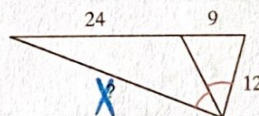


$$\frac{x}{1} = \frac{4}{2}$$

$$2x = 4$$

$$\boxed{x=2}$$

4)

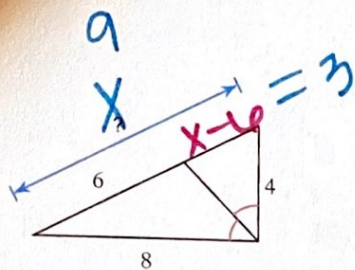


$$\frac{9}{24} = \frac{12}{x}$$

$$9x = 288$$

$$\boxed{x=32}$$

5)

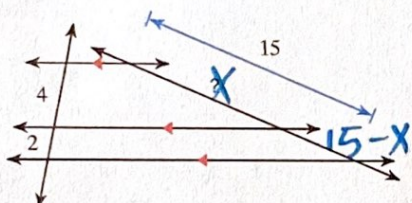


$$\frac{x-6}{4} = \frac{6}{8} \quad \begin{array}{l} 8x=72 \\ \boxed{x=9} \end{array}$$

$$8(x-6) = 24$$

$$8x - 48 = 24$$

7)

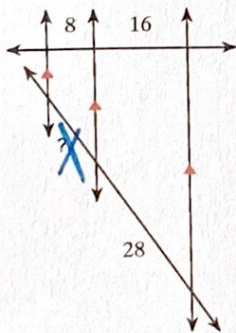


$$\frac{4}{x} = \frac{2}{15-x} \quad \begin{array}{l} 60 = 2x \\ \boxed{x=10} \end{array}$$

$$4(15-x) = 2x$$

$$60 - 4x = 2x$$

9)

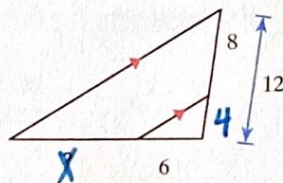


$$\frac{8}{x} = \frac{16}{28}$$

$$112x = 224$$

$$\boxed{x=14}$$

6)

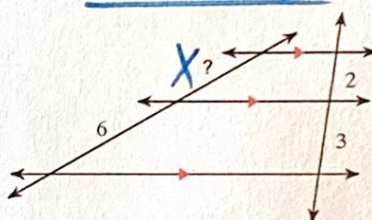


$$\frac{4}{x} = \frac{8}{9}$$

$$48 = 4x$$

$$\boxed{x=12}$$

8)

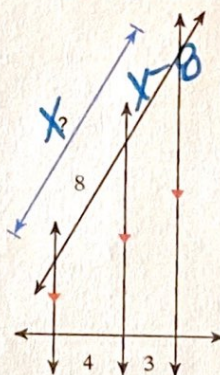


$$\frac{x}{2} = \frac{6}{3}$$

$$3x = 12$$

$$\boxed{x=4}$$

10)



$$\frac{8}{4} = \frac{x-8}{3}$$

$$24 = 4(x-8)$$

$$24 = 4x - 32$$

$$4x = 56$$

$$\boxed{x=14}$$