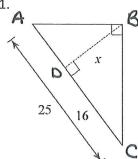
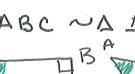
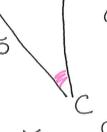
## Similar Right Triangle Homework

<u>Directions</u>: Draw out the 3 triangles and color code to help find all of the missing variables. In each problem, find the missing length(s) that are indicated. Leave your answer in SIMPLEST RADICAL FORM!

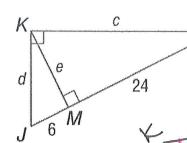


DABC ~A ADB





2.



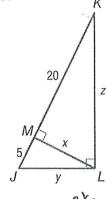
9

DMKL ~ D MJK ~ D KJL

~A BDC

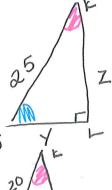
$$\frac{C}{30} = \frac{29}{C}$$

## DJML ND LMK ND JLK



$$\frac{\times}{5} = \frac{20}{\times}$$

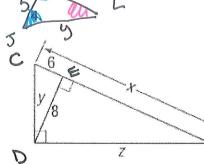
$$\frac{x}{5} = \frac{20}{x}$$
 $\frac{y}{25} = \frac{5}{y}$ 
 $\frac{y^2}{125} = \frac{125}{y}$ 



$$\frac{Z}{20} = \frac{35}{Z}$$

$$Z^{2} = 500$$

$$Z = 10\sqrt{5}$$

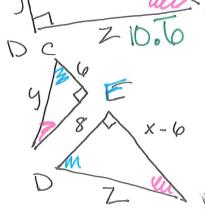


DEFD ~ DEC ~ DEC

1

$$\frac{x}{8} = \frac{100}{8}$$
 $6x - 36 = 64$ 
 $x = \frac{100}{8}$ 
 $x = \frac{100}{8}$ 

$$6^{2}+8^{2}=y^{2}$$
 $\sqrt{100}=y^{2}$ 
 $\sqrt{10}=y$ 
 $\sqrt{10}=y$ 



$$X = \frac{3}{3}$$

$$X = 16.6$$