Finding Angles in Triangles
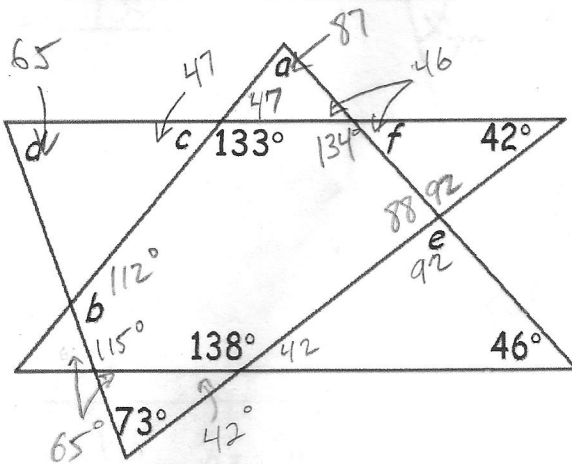
Name_____

Date_____Pd_____

Using what you know about angles in triangles, parallel lines, and other angle relationships, find the missing angles in each of the following problems. *Hint – look at ALL of the ⇌'s in the diagram.*
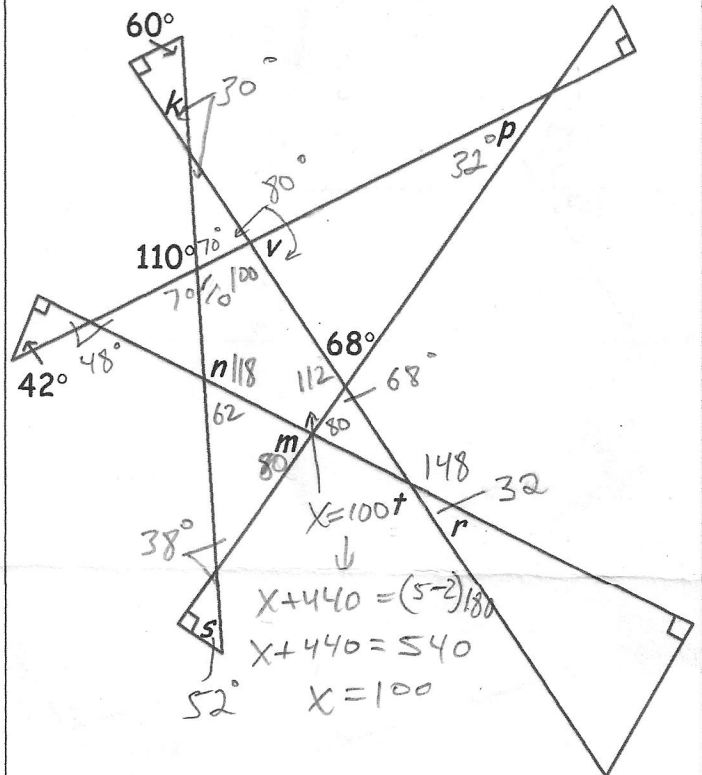

1.

$a =$ __87°__ $b =$ __112°__

$c =$ __47°__ $d =$ __65°__

$e =$ __92°__ $f =$ __46°__

2.

$k =$ __30°__ $m =$ __80°__

$n =$ __118°__ $p =$ __32°__

$r =$ __32°__ $s =$ __52°__

$t =$ __148°__ $v =$ __80°__

$X = 100\,t$

$X + 440 = (5-2)180$

$X + 440 = 540$

$X = 100$

52°

3.

$a =$ __77°__ $b =$ __48°__

$c =$ __35°__ $d =$ __110°__

$e =$ __70°__ $f =$ __55°__

$g =$ __55°__ $h =$ __70°__

$j =$ __125°__ $k =$ __55°__

$m =$ __55°__
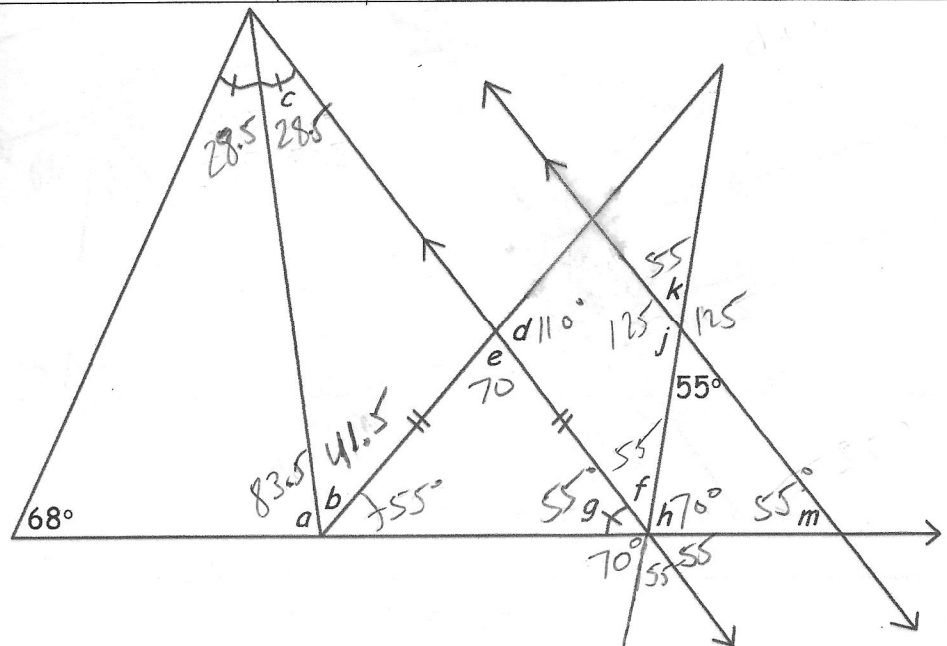
4.

a = 80 b = 100
c = 100 d = 50
e = 50 f = 130 $l_1 \parallel l_2$ and $l_3 \parallel l_4$
g = 50 h = 80
k = 100 m = 80
n = 28 p = 100
s = 130
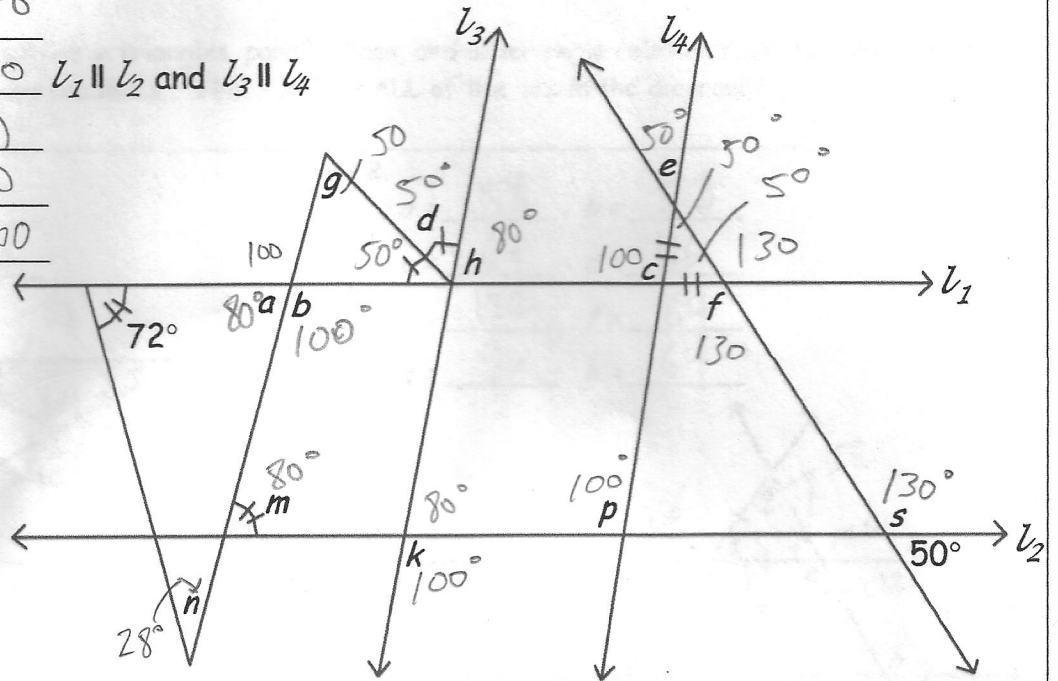
5.

a = 110 b = 70
c = 117 d = 90
e = 104 f = 110
g = 110 h = 70
j = 75 k = 110
m = 66 n = 57
p = 70 q = 110
r = 66 s = 113
v = 98