

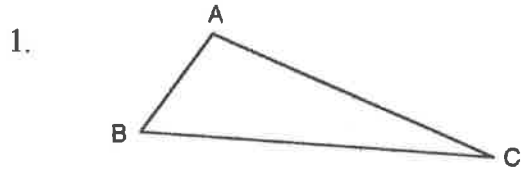
8.0 – Naming Triangles and Pythagoras WORKSHEET

Name: _____

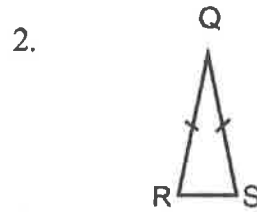
Date: _____

Labelling Triangles

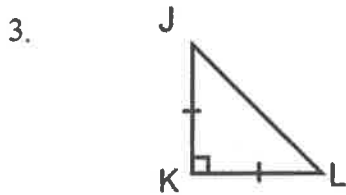
- a) State: right Triangle OR not a right triangle
- b) State: equilateral, isosceles, or scalene
- c) Label the sides using lower case letters
- d) Label the sides using their endpoints



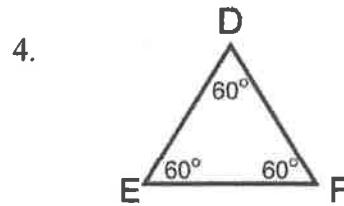
- a)
- b)



- a)
- b)



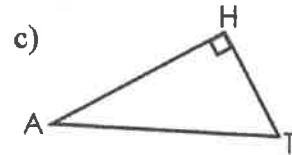
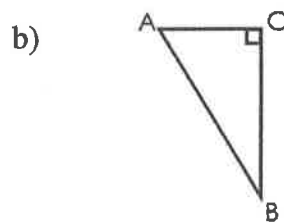
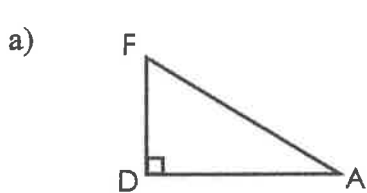
- a)
- b)



- a)
- b)

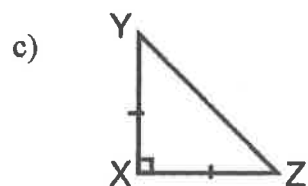
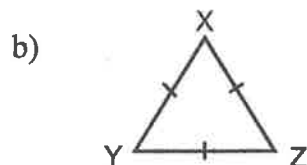
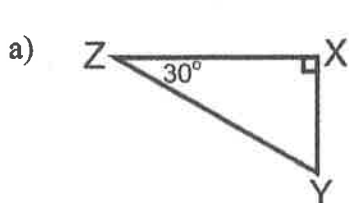
Labelling Angles from a Target Angle (for Right Triangles ONLY!!!) OPP, ADJ, HYP

5. Label the HYPotenuse, the side OPPOSITE to angle A and the side ADJacent to angle A (use A as the target angle).



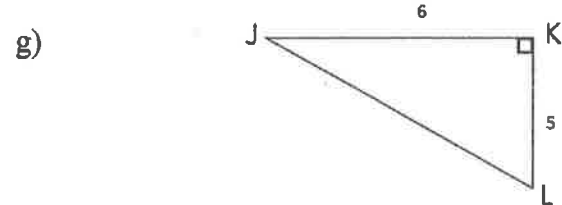
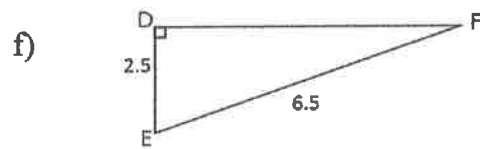
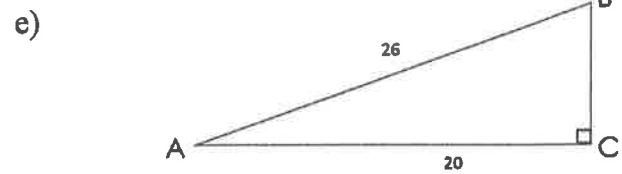
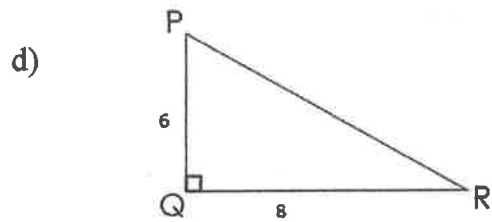
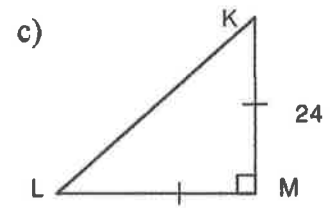
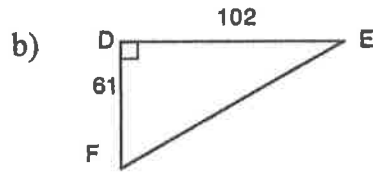
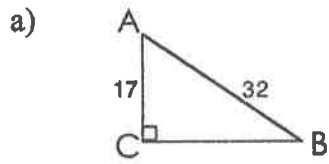
Finding Angles

6. In each triangle, find the measure of angle Y



Pythagoras

7. Name and find the missing sides (to the nearest hundredth).

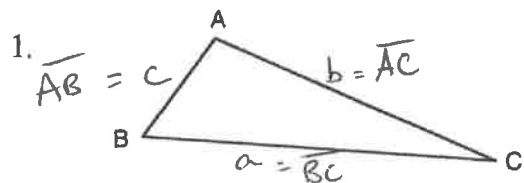


8.0 – Naming Triangles and Pythagoras WORKSHEET

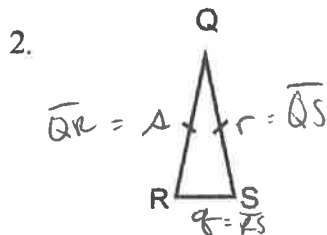
Name: Key
Date: _____

Labelling Triangles

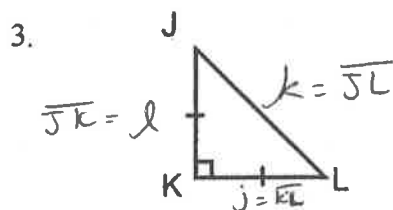
- State: right Triangle OR not a right triangle
- State: equilateral, isosceles, or scalene
- Label the sides using lower case letters
- Label the sides using their endpoints



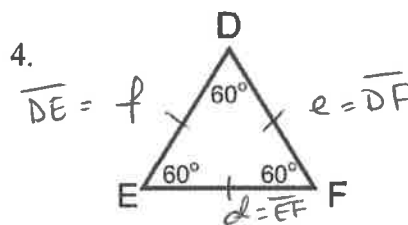
- NOT a rt Δ
- Scalene



- NOT a rt Δ
- isosceles



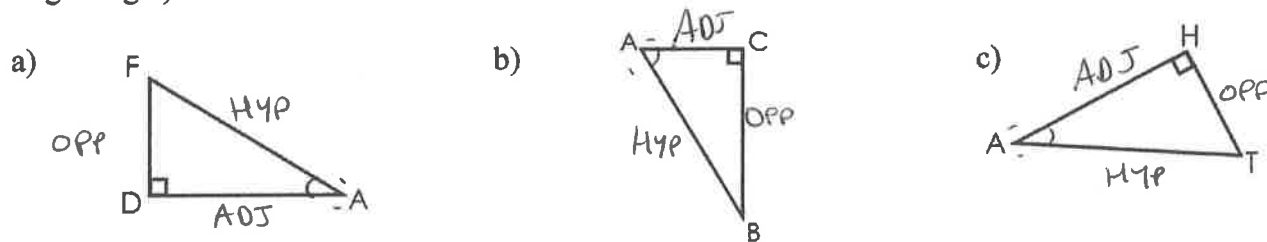
- Right Triangle
- isosceles



- NOT a rt Δ
- equilateral

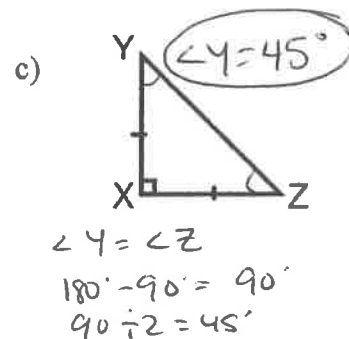
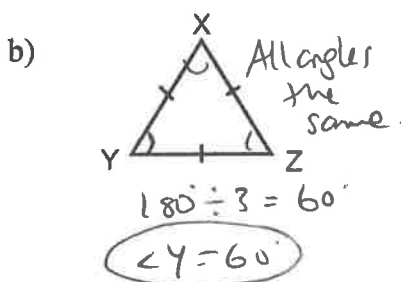
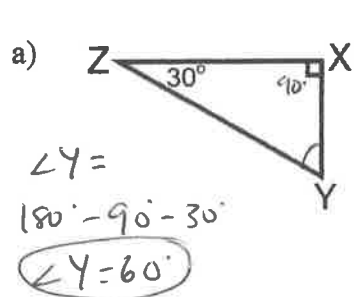
Labelling Angles from a Target Angle (for Right Triangles ONLY!!!) OPP, ADJ, HYP

5. Label the HYPotenuse, the side OPPOSITE to angle A and the side ADJacent to angle A (use A as the target angle).



Finding Angles all angles add to 180

6. In each triangle, find the measure of angle Y

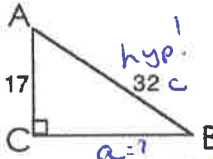


$$a^2 + b^2 = c^2 \text{ (hyp)}$$

$$\text{or } a^2 = c^2 - b^2$$

Pythagoras

7. Name and find the missing sides (to the nearest hundredth).

a) 

Two METHODS:

$$a^2 = c^2 - b^2$$

$$a^2 = 32^2 - 17^2$$

$$a^2 = 735$$

$$\sqrt{a^2} = \sqrt{735}$$

$$a = 27.11$$

or

$$a^2 + b^2 = c^2$$

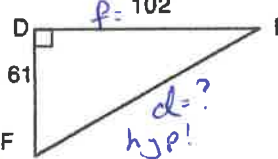
$$a^2 + 17^2 = 32^2$$

$$a^2 + 289 = 1024$$

$$-289 \quad -289$$

$$a^2 = 735$$

$$a = 27.11$$

b) 

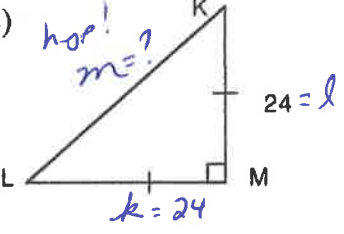
$$e^2 + f^2 = d^2$$

$$61^2 + 102^2 = d^2$$

$$3721 + 10404 = d^2$$

$$\sqrt{14125} = \sqrt{d^2}$$

$$d = 118.85$$

c) 

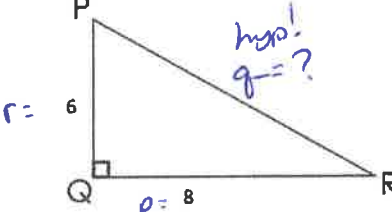
$$k^2 + l^2 = m^2$$

$$24^2 + 24^2 = m^2$$

$$576 + 576 = m^2$$

$$1152 = m^2$$

$$m = 33.94$$

d) 

$$p^2 + r^2 = q^2$$

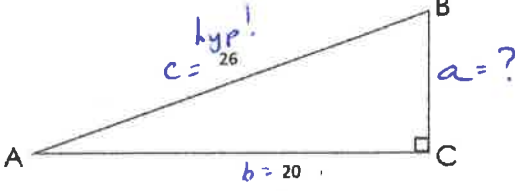
$$8^2 + 6^2 = q^2$$

$$64 + 36 = q^2$$

$$100 = q^2$$

$$\sqrt{100} = \sqrt{q^2}$$

$$q = 10$$

e) 

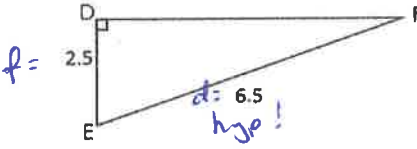
$$a^2 = c^2 - b^2$$

$$a^2 = 26^2 - 20^2$$

$$a^2 = 676 - 400$$

$$\sqrt{a^2} = \sqrt{276}$$

$$a = 16.61$$

f) 

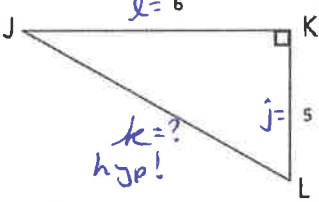
$$e^2 = d^2 - f^2$$

$$e^2 = 6.5^2 - 2.5^2$$

$$e^2 = 42.25 - 6.25$$

$$\sqrt{e^2} = \sqrt{36}$$

$$e = 6$$

g) 

$$l^2 + j^2 = k^2$$

$$6^2 + 5^2 = k^2$$

$$36 + 25 = k^2$$

$$\sqrt{61} = \sqrt{k^2}$$

$$k = 7.81$$