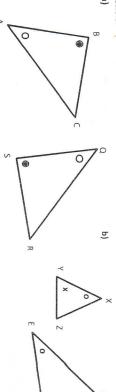
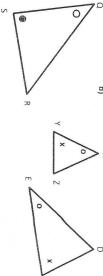
SIMILAR TRIANGLES & PYTHAGOREAN THEOREM - TEST REVIEW Solutions







- DABC ~ AQSR
- DXYZ~ AEFD
- 2. For the following similar triangles, complete the following statements:

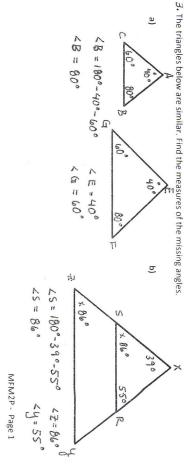
a) < A corresponds to < J

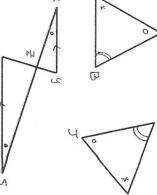
- Side AB corresponds to side TK Side BC corresponds to side KH Side CA corresponds to side HJ < C corresponds to < H < B corresponds to < 🗷

b) < X corresponds to < S

< Y corresponds to < < 2 corresponds to < Z

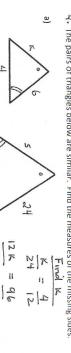
Side ZY corresponds to side 37 Side YZ corresponds to side T Side ZX corresponds to side 25

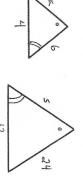




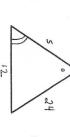
اب The pairs of triangles below are similar. Find the measures of the missing sides. SIMILAR TRIANGLES & PYTHAGOREAN THEOREM - TEST REVIEW Find S

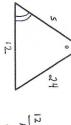
SOLUTIONS











72 = 45

00 = 0

2/6

Find o

FIND!

$$0 = 19.5$$
 ing at the same angle. The

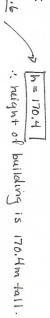
a) Draw a diagram of the situation. shadow of 142m and you cast a shadow of 1.5m. You are 1.8m tall. Similar Trangles!



0,0

b) How tall is the building rounded to ONE decimal place?

Let h represent the height of the building.



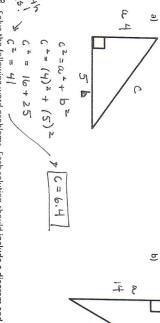
6. Two students take measurements as shown to determine the width of the river. Find the width of the river.

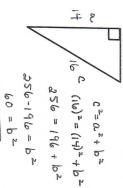


w=9.12

SIMILAR TRIANGLES & PYTHAGOREAN THEOREM - TEST REVIEW SOLUTIONS

7. Use the Pythagorean Theorem to find the unknown sides of the triangles below. Be sure to round your FINAL answers to ONE decimal place if necessary.





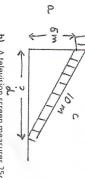
7.7 = 0

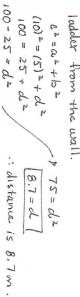
 $\mathcal{B}_{ ext{ iny Solve}}$ Solve the following word problems. Each solution should include a diagram and a therefore statement.

Round answers to 1 decimal place.

a) A 10m ladder leans against the side of a building. If the ladder reaches up to the bottom of a window which is 5m from the ground, how far is the base of the ladder from the wall?

het I rep. the distance of the base of the





- b) A television screen measures 25cm wide and 31cm high. What is the diagonal measure of the screen?
- : length of diagonal 25 cm 3160

iagonal et d ret.

d== (25)=+ (31)=

C2=0++6-

d2 = 625 + 961

length.

d= 1586

- c) A boat leaves a dock and sails 10km south and then 24 km west. How far is the boat from the dock? d = 39.8]
- Let d. rep. distance of boat from dock.

m