(g)

(h)

△UVW is similar to △ _____.   △RST is similar to △ _____.

3. (a) Are the two triangles (△AED and △ABC) in the figure on the right similar if $\dfrac{AE}{AB} = \dfrac{AD}{AC}$? If so, state why and name the pair of similar triangles in the correct order.
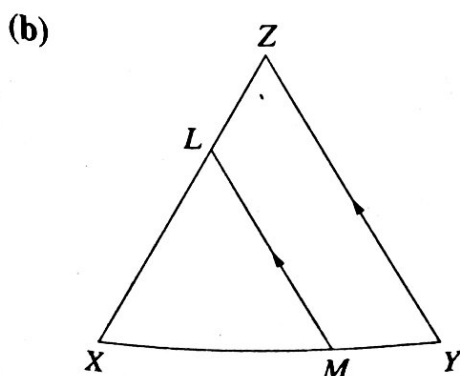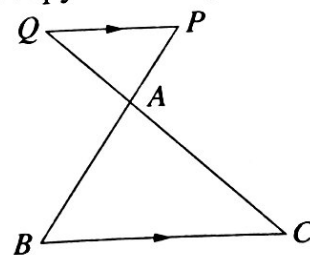

(b)
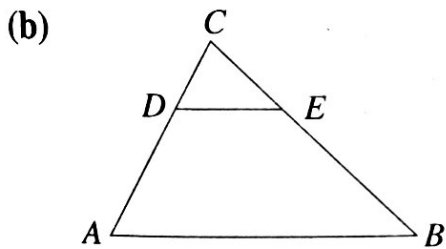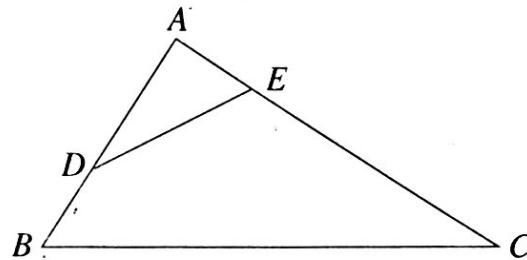
In the figure on the left, $AC = 18$ units, $BC = 24$ units, $DC = 6$ units and $EC = 8$ units. Are △CDE and △CAB similar?

4. (a) Are any two equilateral triangles similar?
(b) If two isosceles triangles have equal vertex angles, are the triangles similar?
(c) If two isosceles triangles have equal base angles, are the triangles similar?

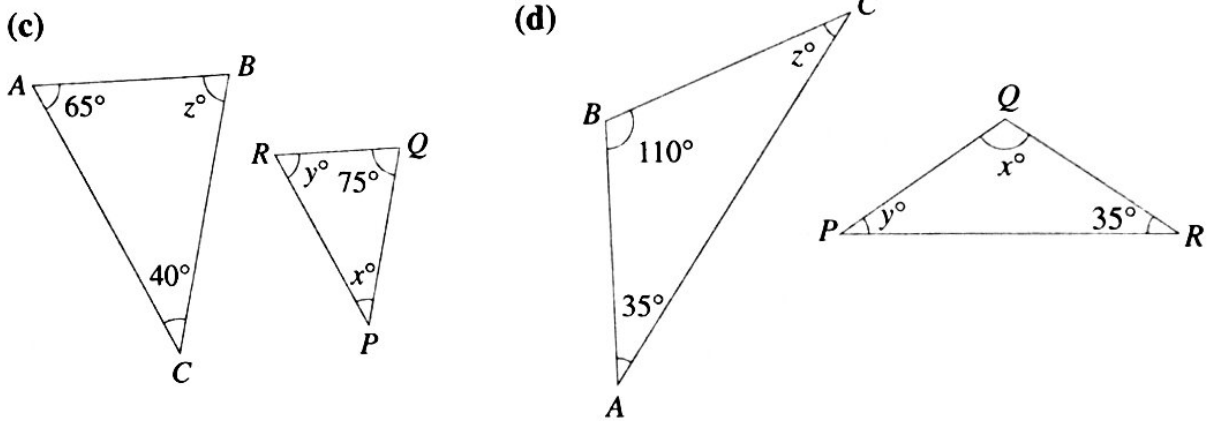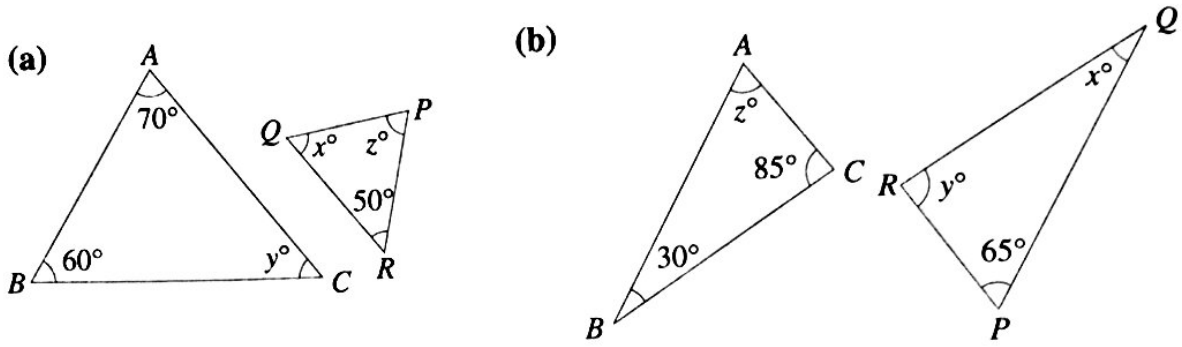**5.** In each case, name the pair of similar triangles, then copy and complete the statements.

(a) $\dfrac{PA}{BA} = \dfrac{}{CA}$, $\dfrac{QP}{CB} = \dfrac{QA}{}$, $\dfrac{QP}{PA} =$
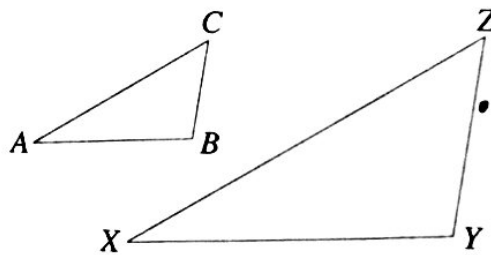

(b)

$\dfrac{XL}{XZ} = \dfrac{XM}{}$, $\dfrac{YX}{MX} = \dfrac{}{ML}$, $\dfrac{XM}{XL} = \dfrac{}{XZ}$,

$\dfrac{XY}{XZ} = \dfrac{XM}{}$, $\dfrac{ZX}{LX} = \dfrac{}{MX}$, $\dfrac{ML}{YZ} = \dfrac{XL}{}$.

6. Given that $\dfrac{PQ}{AB} = \dfrac{QR}{BC} = \dfrac{RP}{CA}$, write down the values of x, y and z.

(a)

(b)

(c)

(d)

7. In the figures, if $\hat{A} = \hat{X}$, $AB = 6$ units, $AC = 8$ units, $BC = 4$ units, $XY = 12$ units and $XZ = 16$ units, calculate YZ.

8. In the figures, $\triangle PQR$ and $\triangle STU$ are similar such that $\dfrac{RQ}{UT} = \dfrac{3}{2}$ and $PQ = 6$ units. Calculate ST.