

Similar Figures 903

Similar Triangles

Answers

1 a $x = 13\frac{5}{7}, y = 6\frac{5}{12}$

b $x = 9\frac{1}{7}, y = 5\frac{5}{8}$

c $x = 14\frac{2}{5}, y = 16\frac{2}{3}$

d $x = 12\frac{6}{7}, y = 9\frac{1}{3}$

e $DC = 12\frac{24}{25}, BD = 12\frac{1}{25}$

2 Similar Triangles : **a** $x : 5 = 9 : 2$
 $x = 22 \cdot 5$

b $\frac{7+x}{7} = \frac{8}{5}$
 $x = 4 \cdot 2$

3 Similar Triangles :

a $x = 24$

b $\alpha = 56^\circ, \beta = 50^\circ$
 $\gamma = 56^\circ, \delta = 74^\circ$

$x = 9, y = 16\frac{2}{3}$

c $\alpha = 73^\circ, \beta = 65^\circ, \gamma = 115^\circ$

$x = 9\frac{5}{11}, y = 7\frac{1}{8}$

d $\alpha = 82^\circ, \beta = 43^\circ$

$x = 16, y = 13\frac{5}{7}$