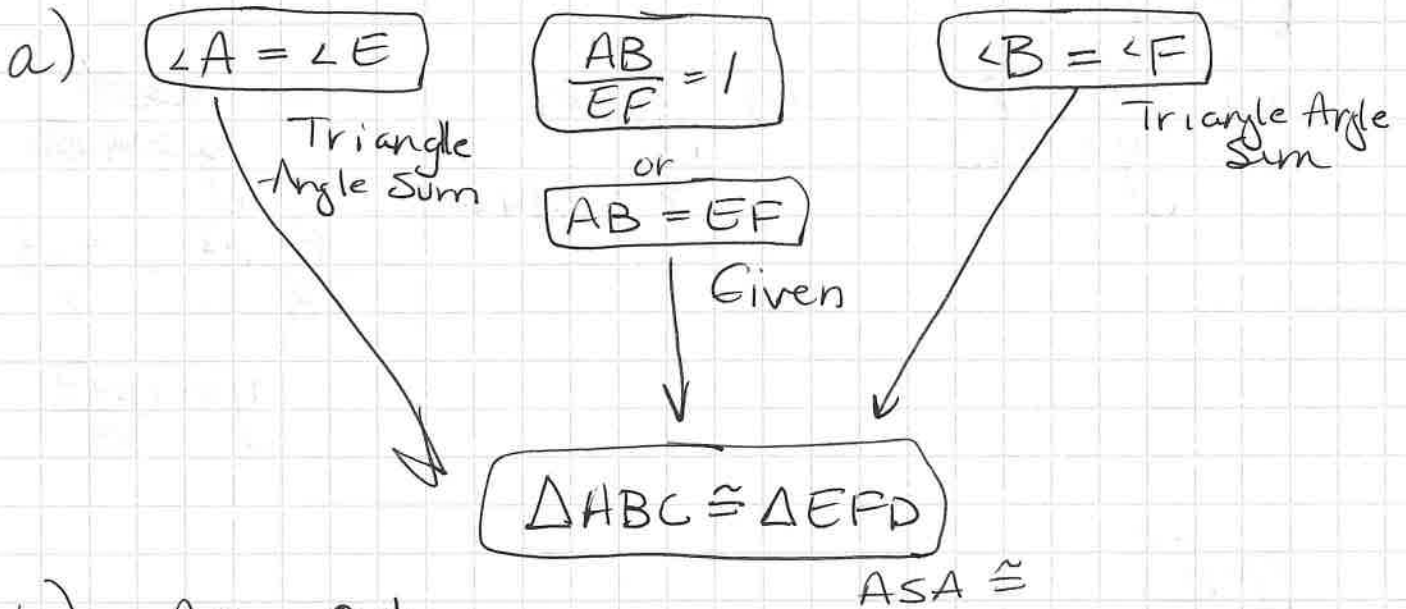
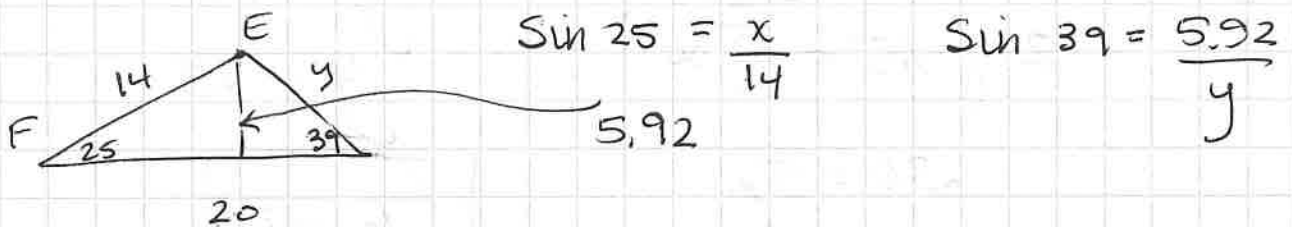


homework 7-6 to 7-11

7-6



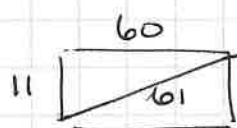
b) $AC = 9.4 \text{ cm}$
 $DF = 20 \text{ cm}$



7-7

$d - 117^\circ$ (Corresp. / straight angle)
 $a - 26^\circ$ (vertical angles)
 $c - 26^\circ$ (Triangle Angle Sum)
 $b - \cancel{100}^\circ$ (Triangle Sum)
 65°

7-8



width 60 mm
 Area 660 mm²

7-9

quadrilateral

7-10

a) $x = 18$
 $y = 9\sqrt{3}$

b) $y = 24$
 $x = 24\sqrt{2}$

c) ~~$x = 8$~~
 ~~$y = 4\sqrt{3}$~~
 $\frac{8}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{8\sqrt{3}}{3} = x$
 $y = \frac{16\sqrt{3}}{3}$

7-11

a) $-2x - 1 = \frac{1}{2}x - 16$
 $15 = 2\frac{1}{2}x$
 $2 \left(15 = \frac{5}{2}x \right)$
 $30 = 5x$
 $6 = x$

$y = -2(6) - 1$
 $y = -12 - 1$
 $y = -13$

(6, -13)

b) $x^2 + 1 = -x^2$
 $2x^2 = -1$
 $x^2 = \frac{-1}{2}$

cannot solve (cannot take $\sqrt{\text{of a neg.}}$)

MEANS curves don't intersect