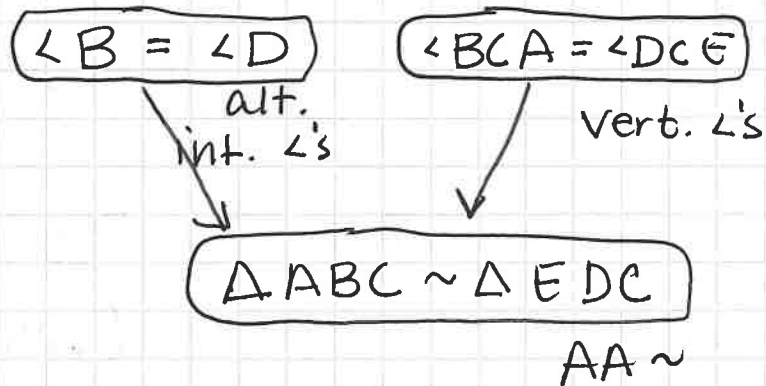
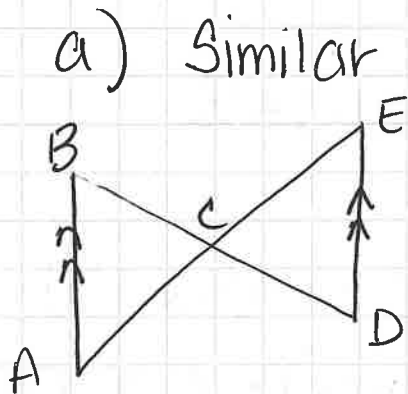


homework 6-73 to 6-78

6-73



b) $\frac{20}{x} = \frac{24}{x+2}$

$20(x+2) = 24x$
 $20x + 40 = 24x$
 $40 = 4x$
 $10 = x$

6-74

a) $18x - 10 + 7x = 90$
 $25x = 100$
 $x = 4$

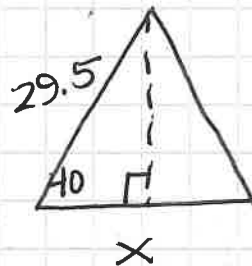
(Complementary \angle 's)

b) $\frac{110}{2} = 55^\circ$
 $x = 55^\circ$

c) $63 + 5x + 2 = 180$
 $5x = 115$
 $x = 23$

$117 = 3y - 12$
 $129 = 3y$
 $43 = y$

d) $3x + 13 = 5x + 2$
 $11 = 2x$
 $5.5 = x$



$\cos 40 = \frac{y}{29.5}$
 $y = 22.6$

$x = 45.2$

6-75

paint blemish 4% dent .5%

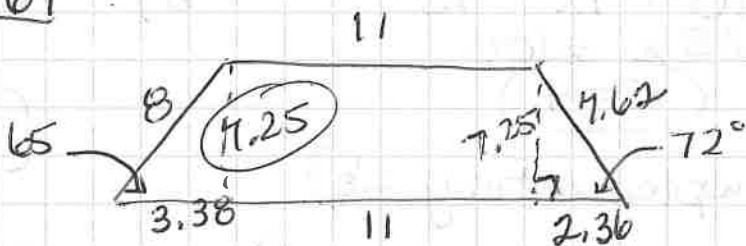
blemish and dent .5%

$$P(B \text{ or } D) = P(B) + P(D) - P(B \text{ and } D)$$
$$= (.04) + (.005) - (.005)$$

$$P(B \text{ or } D) = .04 \text{ or } 4\%$$

If a refrigerator has a dent it also has a paint blemish

6-76



$$\sin 65 = \frac{x}{8}$$
$$x \approx 7.25$$

$$\sin 72 = \frac{7.25}{x}$$

$$x = \frac{7.25}{\sin 72}$$

$$8^2 - (7.25)^2$$

$$\tan 72 = \frac{7.25}{x}$$

$$AP = 8 + 11 + 4.62 + 2.36 + 11 + 3.38$$
$$= 43.36 \text{ un}$$

$$A = \frac{1}{2} (11 + 16.74) (7.25) = 100.56 \text{ un}^2$$

6-77

a) 8 by 9 \Rightarrow 256 ft by 288 ft.

b) $8 \times 3 = 24 - (2) = 22$

$6 \times 5 = 30$

$2 \times 4 = 8 - (1/2) = 7\frac{1}{2}$

$59.5 \text{ sq un} \cdot (32)^2 = \underline{\underline{60,928 \text{ ft}^2}}$

6-78

length $2w - 3$

width w

} $w(2w - 3)$

$2w^2 - 3w$

C

