

HW KEY Pages 52-53 / #2-32 (evens)

(2) $17\frac{1}{2}, 107\frac{1}{2}$

(4) $90-2y, 180-2y$

(6) $90, 90$

(8) $\{\angle AFE \text{ \& } \angle EFD\}$ or $\{\angle AFE \text{ \& } \angle BFC\}$

(10) $\{\angle BFE \text{ \& } \angle EFD\}$ $\{\angle CFA \text{ \& } \angle AFE\}$ $\{\angle DFC \text{ \& } \angle CFB\}$

(12) $\angle BFE \text{ \& } \angle CFD$

(14) 155

(16) 120

(18) 85

(20) $x=10$

(22) a) 153, 153

b) $180-x, 180-x$

c) Yes

(24) $x=65$

$m\angle A = 130$

$m\angle B = 50$

(26) $y=17$

$m\angle C = 56$

$m\angle D = 34$

(28) $x=2(180-x)$

angle = 120

or

$x+2x=180$

(30) $(2x+12)+x=180$

or

$180-x=2x+12$

Angles = 56, 124

(32) $x+3x-8=180$

$x=47$

$2y-17=133$

$y=75$