Geo
HW #6

Pg. 40 # 5, 7, 10, 14, 24, 42, 43, 44 Pg. 7 # 17-19, 26-28, 33

40

5) ∠1 and ∠5 are adjacent angles.

True, they share a side and vertex, and have no common interior points (aka they don't overlap.)

7) ∠3 and ∠4 are complementary.

False, they are supplementary.

10) adjacent and congruent to ∠AOE

∠COE

14) ∠J ≅ ∠D

Yes, they have the same angle marks and are therefore congruent.

24) a) $3x-3 = 4x-14$

$-3x \quad +14 \quad -3x \quad +14$

$11 = x$

∠FGH = 3(11) - 3 = 30

b) ∠HGI ≅ ∠FGH = 30

c) ∠FGI = 30 x 2 = 60

42) ∠WXY or ∠YXW

43) ∠WXZ or ∠ZXW and ∠YXZ or ∠ZXY

44) m∠WXZ = m∠WXY + m∠YXZ

$150 = 8x - 1 + 17x + 26$

$150 = 25x + 25$

$-25 \quad -25$

$\frac{125}{25} = \frac{25x}{25}$

$5 = x$

m∠WXY = 8(5) - 1 = 39

7

17) (B)

18) (C)

19) (A)

26) 3 (C) 

27) $10a - 5b = 25$ (for b)

$-10a \qquad -10a$

$\frac{-5b}{-5} = \frac{25}{-5} - \frac{10a}{-5}$

$b = -5 + 2a$

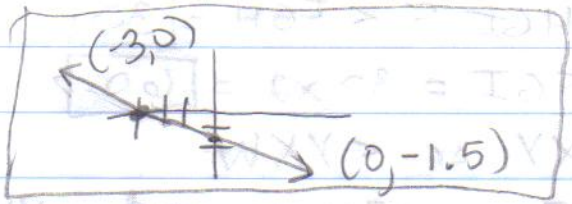
(I) $\boxed{b = 2a - 5}$

28) $x + 2y = -3$

$0 + 2y = -3$ $\qquad x + 2(0) = -3$

$2y = -3 \qquad x = -3$

$y = -1.5$



33) (1,2) (-4,3) (-5,0)