

Chpt 3 Review Solutions Cont.

16) parallel

17) true

18) $(3, 4)$ $(2, 1)$
 x_1, y_1 x_2, y_2

$$m = \frac{1-4}{2-3} = \frac{-3}{-1} = \underline{3}$$

$$y - y_1 = m(x - x_1)$$

$$y - 4 = 3(x - 3)$$

$$y - 4 = 3x - 9$$

$$\underline{y = 3x - 5}$$

19) $(4, 6)$ $3/4 = m$

$$y - y_1 = m(x - x_1)$$

$$\underline{y - 6 = 3/4(x - 4)}$$

20) parallel b/c they have the same slope.

21) $3x + 2y = 6$

$$\frac{2y}{2} = \frac{-3x + 6}{2}$$

$$y = -\frac{3}{2}x + 3$$

$$\frac{4y}{4} = \frac{-6x - 12}{4}$$

$$y = -\frac{6}{4}x - 3$$

$$y = -\frac{3}{2}x - 3$$

// b/c they have the same slope.

22) $4x = 3x + 20$

b/c alt ext. $\angle s \cong$

$$4x = 3x + 20$$

$$-3x \quad -3x$$

$$x = 20$$

$$m \angle FDE = 3x + 20$$

$$= 3(20) + 20$$

$$= 60 + 20$$

$$m \angle FDE = 80$$

23) 1. given

2. def of comp.

3. \angle add post.

4. substitution

5. def of \perp lines

6. If 2 lines are \perp

to the same line

then the lines are //

24) The given

information is that

$\angle 2 \cong \angle 4$. Since $\angle 2$

and $\angle 4$ are corres,

then by the converse

of corres. $\angle s$ Post

c/d.