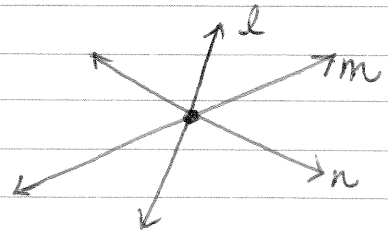
HW Review - p. 35, #1-25

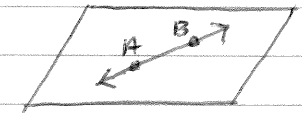
1. 

$\overline{XY}$

2. 

$\overrightarrow{MP}$

3. 

4. 

5. T, V, W
X, V, W
X, V, Y
Z, V, W
Z, W, T
} These are just a few. Answers will vary.

6. $\overleftrightarrow{YW}$, $\overleftrightarrow{XZ}$ (Plane)

7. S, Plane TVX

8. ℓ (line ℓ)

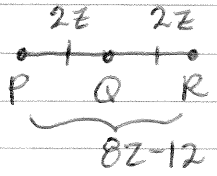
9. $\overline{SV} = 5-(-1.5) = 6.5$

10. $\overline{TR} = 2-(-4) = 6$

11. $\overline{ST} = 2-(-1.5) = 3.5$

12. $4x+6+9 = 39$
$4x+15 = 39$
$4x = 24$
$x = 6$
$4(6)+6 = 30$

13. SKIP!

14. 

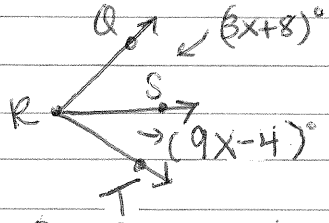
$2z+2z = 8z-12$
$4z = 8z-12$
$-4z = -12$
$z = 3$

$PQ = 6$
$PR = 12$

15.

$\angle LMN$	$\angle NMP$	$\angle LMP$
$\angle NML$	$\angle PMN$	$\angle PML$
$\angle 1$	$\angle 2$	

16. acute
17. obtuse
18. obtuse

19. 

$3x+8 = 9x-4$
$-6x = -12$
$x = 2$
$m\angle SRT = 14°$

20. SKIP!

21. adjacent and linear pair

22. adjacent

23. not adjacent

24. $180-(5x-10)$
$180-5x+10$
$(190-5x)^\circ$

25. $90-(5x-10)$
$90-5x+10$
$(100-5x)^\circ$

P. 33, # 44 & # 45

44. $(180-x) = 4 + 2(90-x)$
$180 - x = 4 + 180 - 2x$
$-x = 4 - 2x$
$x = 4$

$180-x \rightarrow$ supp.
$90-x \rightarrow$ comp.
$x \rightarrow$ the angle!

The angle is 4°.

45. $x = 2(90-x)$
$x = 180 - 2x$
$3x = 180$
$x = 60^\circ$

60° and 30°
↑ angle ↑ comp.

30°

Name KEY

Riddle Me This

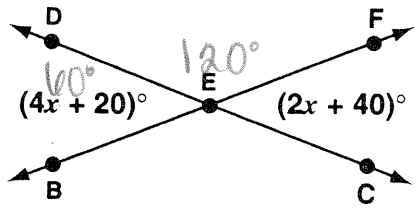
What is pointed in one direction but headed in another?

To find out, solve the problems below and shade in the answers in the boxes. The unshaded boxes will spell the answer.

Find the value of x and m∠DEF.

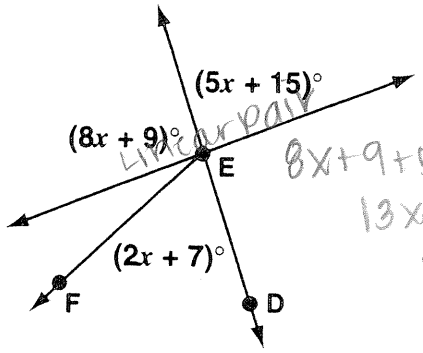
1. $x =$ 10 m∠DEF = 120°

vertical ∠s



$4x+20 = 2x+40$
$2x+20 = 40$
$2x = 20$
$x = 10$

2. $x =$ 12 m∠DEF = 31°

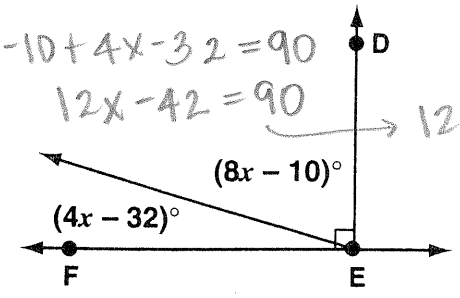


Linear pair

$8x+9+5x+15 = 180$
$13x+24 = 180$
$13x = 156$
$x = 12$

3. $x =$ 11 m∠DEF = 90°

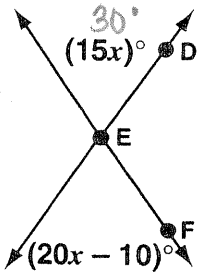
$8x-10+4x-32 = 90$
$12x-42 = 90$
$12x = 132$
$x = 11$



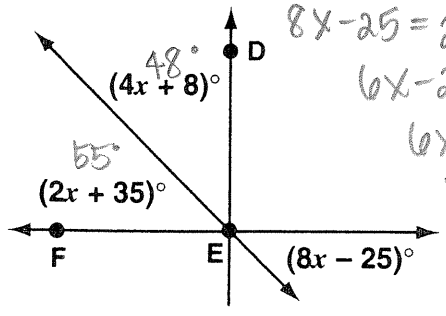
4. $x =$ 2

m∠DEF = 150°

$15x = 20x-10$
$-5x = -10$
$x = 2$



5. $x =$ 10 m∠DEF = 103°



$8x-25 = 2x+35$
$6x-25 = 35$
$6x = 60$
$x = 10$

C 31	A 7	P 150	N 4	M 10
Q 90	S 2	A 115	W 120	B 103
E 11	I 13	R 12	L 25	G 10

Answer: A NAIL

Name KEY

Angle Mania

For each problem, circle the angle with the given relationship. Some angle measures are given to help you find the answers.

$m\angle 11 = 115°$ $m\angle 34 = 25°$ $m\angle 21 = 58°$
$m\angle 5 = 32°$ $m\angle 36 = 65°$ $m\angle 7 = 155°$

a. ∠1 linear pair
∠12 ∠3 ∠29 ∠39

b. ∠2 adjacent
∠23 ∠21 ∠8 ∠16

c. ∠3 linear pair
∠31 ∠22 ∠40 ∠41

d. ∠4 vertical
∠24 ∠15 ∠19 ∠10

e. ∠5 complementary
∠33 ∠34 ∠9 ∠21

f. ∠6 vertical
∠13 ∠26 ∠1 ∠27

g. ∠7 supplementary
∠34 ∠12 ∠17 ∠28

h. ∠8 linear pair
∠24 ∠5 ∠4 ∠33

i. ∠9 adjacent
∠20 ∠14 ∠39 ∠38

j. ∠10 vertical
∠24 ∠8 ∠4 ∠19

k. ∠11 supplementary
∠36 ∠24 ∠14 ∠2

l. ∠12 linear pair
∠32 ∠1 ∠33 ∠37

m. ∠13 supplementary
∠37 ∠27 ∠18 ∠26