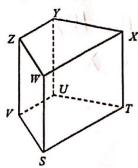
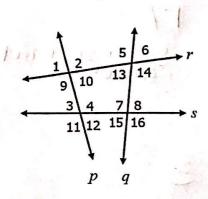
3.1 Lines and Angles

1. Use the diagram below to answer the following questions.



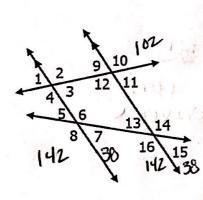
- a) Name all segments parallel to $\overline{x}\overline{t}$
- b) Name all segments parallel to ZY NX
- c) Name all segments parallel to vs
- d) Name a plane parallel to plane STU _______ X X
- e) Name a plane parallel to plane UVZ
- 1) Name all segments skew to SW UT, XX, YZ, VU
- g) Name all segments skew to UT 21, WX, ZW,
- 2. Use the diagram below to answer the following questions.



- a) Name the relationship between ∠1 and ∠3. COYY-CSP.
- b) Name the relationship between ∠7 and ∠14_01+ Mt
- c) Name the relationship between 28 and 214 Same Side int
- d) Name the relationship between ∠6 and ∠4 1000 &
- e) Name the relationship between ∠3 and ∠16 alt. 1×t
- f) Name the relationship between \$\alpha 10 and \$\alpha 13 \sum Side Int

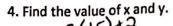
3.2 Properties of Parallel Lines

3. Given, $\angle 7 = 38$ and $m \angle 10 = 102$, find the measure of the following angles. Give your reasoning.



- a) m28 = 142 Linear pair w/27
- b) m = 15 = 38 · Corresp to = 7 c) m = 4 = 102 · Oult. ex + = 10
- d) m22 = 102 vertical 2 4
- e) m25 = 38' vertical to 27
- f) m < 16 = 142 corresp to < 8





$$3(15)+2$$

$$47^{(3y+2)}$$

$$(11y-32) \cdot (10x+7)$$

$$11(15)-32>133$$

$$3y+2+119$$
 32
 $14y £30 = 180$
 $14y = 210$
 $y = 15$

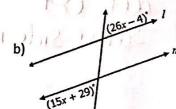
$$40 = 10x$$

$$4 = x$$

5. Find x so that
$$l \parallel m$$
 in the following. State the converse used.

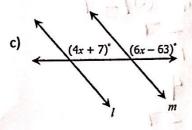
a)
$$\longleftrightarrow$$
 $(8x-9)$ \longleftrightarrow m

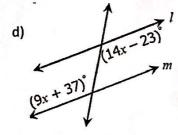
3.3 Proving Lines Parallel



$$IIx = 33$$
$$x = 3$$

$$x = 3$$





$$x = 12$$
Converse alf. int

\$ 14