

HW 1.3 due Friday 9/18; 3 PROBLEMS REQUIRE WORK

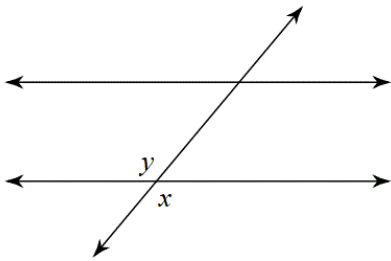
18 Questions

NAME : _____

CLASS : _____

DATE : _____

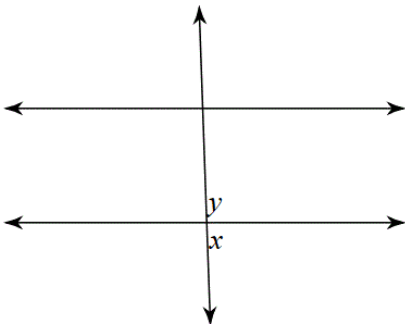
1.



What is the angle relationship between the indicated angles in the diagram?

- a) Alternate Interior Angles and they are congruent
- b) Alternate Exterior Angles and they are congruent
- c) Corresponding Angles and they are congruent
- d) Vertical Angles and they are congruent
- e) Linear pair and they are supplementary

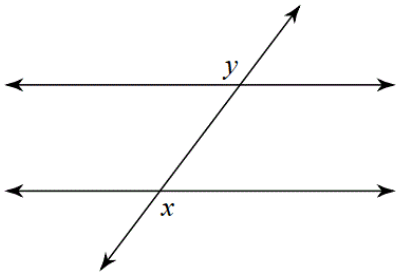
2.



What is the angle relationship between the indicated angles in the diagram?

- a) Alternate Interior Angles and they are congruent
- b) Alternate Exterior Angles and they are congruent
- c) Corresponding Angles and they are congruent
- d) Vertical Angles and they are congruent
- e) Linear pair and they are supplementary

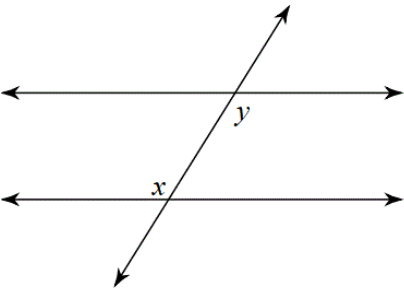
3.



What is the angle relationship between the indicated angles in the diagram?

- a) Alternate Interior Angles and they are congruent
- b) Alternate Exterior Angles and they are congruent
- c) Corresponding Angles and they are congruent
- d) Same-side Exterior angles and they are supplementary
- e) Same-side Interior angles and they are supplementary

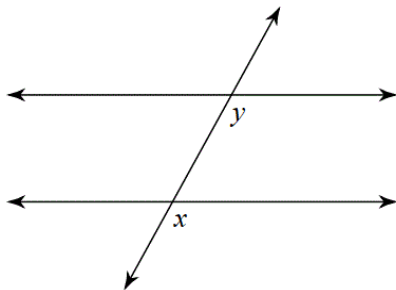
4.



What is the angle relationship between the indicated angles in the diagram?

- a) Alternate Interior Angles and they are congruent
- b) Alternate Exterior Angles and they are congruent
- c) Corresponding Angles and they are congruent
- d) Same-Side Interior Angles and they are supplementary
- e) Same-Side Exterior Angles and they are supplementary

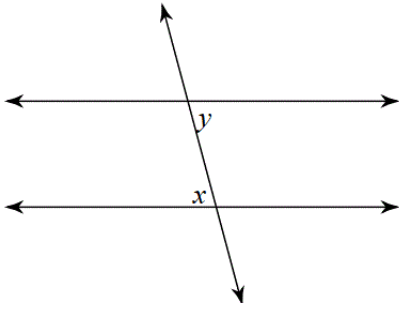
5.



If the lines are parallel and the measure of Angle y is 100 degrees, what is the measure of Angle x ?

- a) 100 degrees
- b) 80 degrees

6.



If the lines are parallel, $m\angle Y = 3x^2$ and $m\angle X = 75$ degrees, solve for x

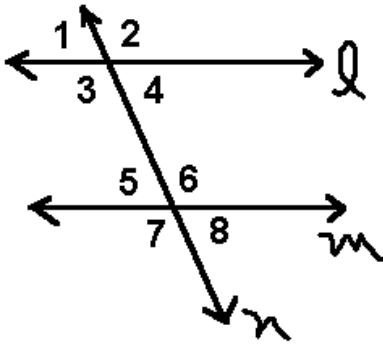
a) $x = 5$ or -5

b) $x = 43.3$

c) 12.5

d) $x = 25$

7.



Given that l is parallel to m , $m\angle 2 = 4y$ and $m\angle 7 = 120$ $y = ?$

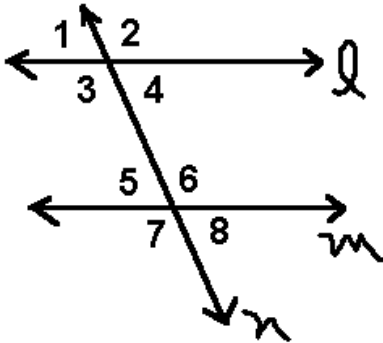
a) 120

b) 30

c) 15

d) 60

8.



Given that $m\angle 5 = (3t + 4)^\circ$ and $m\angle 6 = (2t + 1)^\circ$, solve for t WORK REQUIRED

a) $t = 3$

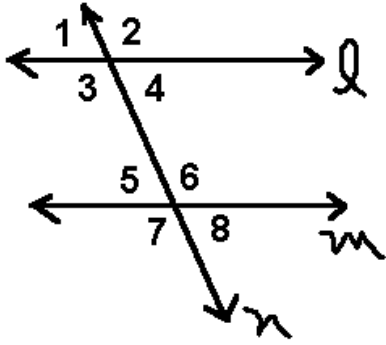
b) $t = 1$

c) $t = 35$

d) $t = 37$

e) $t = 19$

9. $m\angle 4 = (5p + 80)^\circ$ and $m\angle 1 = (9p - 100)^\circ$, solve for p. WORK REQUIRED



- a) $p = 14.3$ b) $p = 5$
 c) $p = -45$ d) $p = 45$

10. $m\angle A = (3x + 4)^\circ$ and $m\angle B = (7x - 14)^\circ$. If A and B are complementary angles, solve for x. WORK REQUIRED

- a) $x = 10$ b) $x = 19$
 c) $x = 7$ d) $x = 17$

11. Draw: $\angle PAY$ is bisected by \overrightarrow{AB} such that $m\angle BAP = 42^\circ$. Which of the following are true?

- a) $m\angle PAY = 42$ degrees b) $m\angle BAY = 42$ degrees
 c) $m\angle YAP = 84$ degrees d) $m\angle BAY = 21$ degrees

12. Draw \overline{FR} contains points T and X such that $\overline{FT} \cong \overline{XR}$. If $FT = 22$ and $FR = 50$, which of the following are true?

- a) $TX = 22$ b) $TX = 6$
 c) $XR = 22$ d) $TR = 28$
 e) $FX = 16$

13. Angles V and G are supplementary such that Angle V is 12 more degrees than G. What are the measures of V and G?

- a) 96 and 84 b) 100 and 80
 c) 12 and 168 d) 192 and 180

14. Which of the following are correct?

- a) Two planes that intersect, always intersect in a line
- c) A ray has only one endpoint
- e) Collinear means that items are on the same plane

- b) A point is symbolized by a lower case letter
- d) Adjacent is a term that means "next to one another"

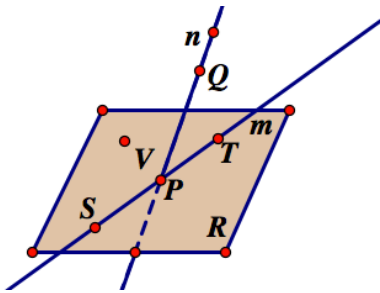
15. $A(4,7)$ $B(2, -3)$ Determine the length of segment AB to the nearest tenth

- a) 4.5
- b) 11.7
- c) 10.2
- d) -9.8

16. $T(-11, 9)$ $K(0,8)$ What is the midpoint of segment TK?

- a) $(-5.5, 8.5)$
- b) $(-5.5, 0.5)$
- c) $(5.5, -8.5)$
- d) $(5.5, 8.5)$

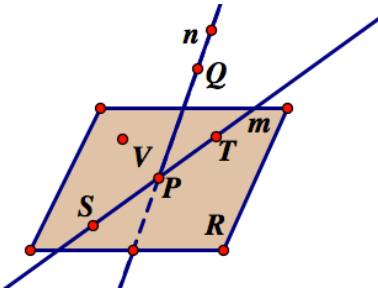
17.



Which of the following are collinear points?

- a) S, P, V
- b) m, R, V
- c) S, P, T
- d) Q, P, S

18.



Which of the following are opposite rays?

a) \overrightarrow{PS} and \overrightarrow{PT}

b) \overrightarrow{PQ} and \overrightarrow{PT}

c) \overrightarrow{SP} and \overrightarrow{PT}