Do Now

1) If Point B (-2, 3) is translated six units up and 5 units left what is the new point B'.

+6 y-value

-5 x-value

$\boxed{B'(-7, 9)}$

2) Reflect Point G (4, -5) over the x-axis. What is coordinate of G'?

$(x,y) \rightarrow (x,-y)$ $G'(4,5)$

May 28-1:01 PM

1) C
2) D
3) D
4) B

5) a reflection in the x- axis
a 90 counter-clockwise
a 270 clockwise
translation

6) D
7) C
8) C
9) FKT

10) <F = 79
EF = 7 in

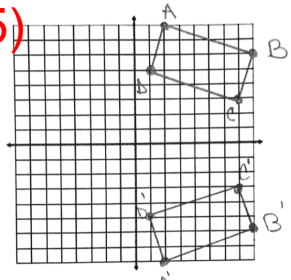
11) Triangle C

12) D

13) D

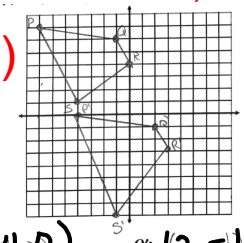
14) A

15)



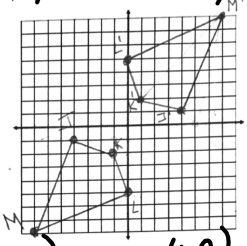
A': (2,-8) B': (8,-6)
C': (7,-3) D': (1,-5)

16)



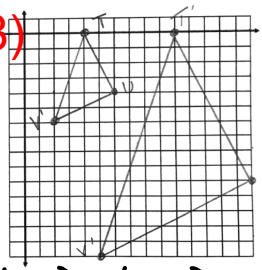
P': (-4,0) Q': (2,-1)
R': (3,-3) S': (-1,-8)

17)



J': (4,1) K': (1,2)
L': (0,5) M': (7,8)

18)



T': (10,0) U': (15,-10) V': (5,-15)

May 28-3:07 PM

ANGLE TOPICS

- Naming Angles
- Solving & Identifying
  - > Supplementary → 180°
  - > Complementary → 90°
  - > Vertical → congruent
- Parallel Lines Cut By a Transversal
  - > Identification
  - > Solving for Angles
- Word Problems
  - > Ratios
  - > Writing Expressions to represent angles

- **Definitions**
  - > Acute
  - > Obtuse
  - > Right
  - > Straight
  - > Congruent
  - > Adjacent
  - > Vertical
  - > Complementary
  - > Supplementary
  - > Transversal
  - > Parallel Lines
  - > Alternate Interior
  - > Alternate Exterior
  - > Corresponding
  - > Consecutive Interior

congruent

180°

Jan 11-6:37 AM

Name the angle relationship. Find the value of x, then find the measure of each angle

Supplementary - 2 or more angles whose sum = 180°

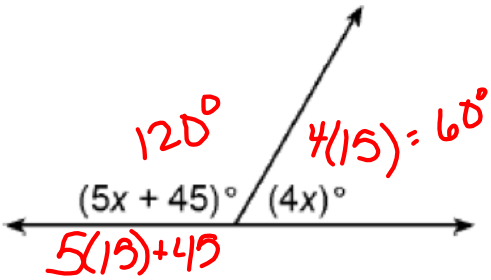
$5x + 45 + 4x = 180$

$9x + \cancel{45} = 180$

$-45 \quad -45$

$\frac{9x}{9} = \frac{135}{9}$

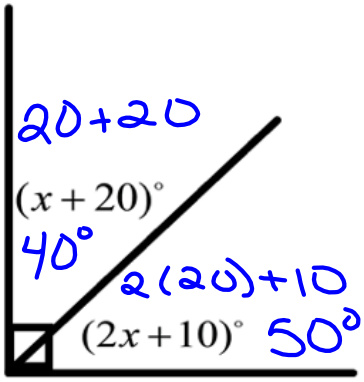
$x = 15$



May 28-2:21 PM

Name the angle relationship. Find the value of x, then find the measure of each angle

Complementary - 2 or more ∠ whose sum = 90°



$x+20+2x+10=90$

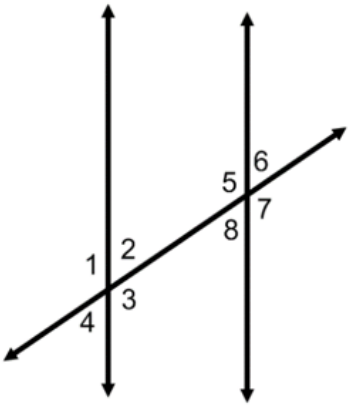
$3x+30=90$

$-30 \quad -30$

$\frac{3x}{3}=\frac{60}{3}$

$x=20$

May 28-2:21 PM



1. List all pairs of vertical angles

∠1 ≅ ∠3 ∠8 ≅ ∠6

∠5 ≅ ∠7 ∠2 ≅ ∠4

2. List all pairs of corresponding angles

∠1 ≅ ∠5 ∠4 ≅ ∠8

∠2 ≅ ∠6 ∠3 ≅ ∠7

3. List all pairs of alternate interior angles

∠2 ≅ ∠8 ∠5 ≅ ∠3

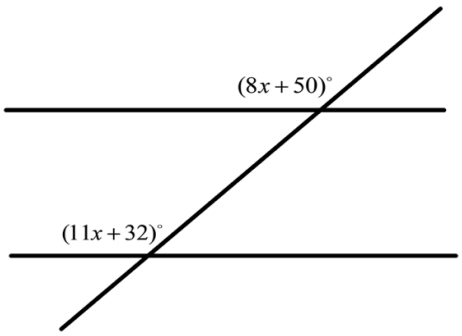
4. List all pairs of alternate exterior angles

∠4 ≅ ∠6 ∠1 ≅ ∠7

May 28-1:41 PM

Find the value of x

Corresponding



$8x + 50 = 11x + 32$
$-32 \qquad -32$

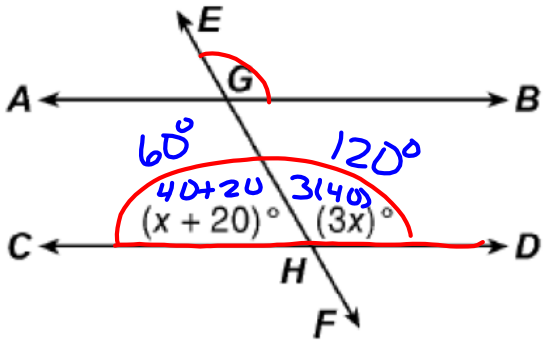
$8x + 18 = 11x$
$-8x \qquad -8x$

$\frac{18}{3} = \frac{3x}{3}$

$6 = x$

May 28-2:31 PM

Find the value of <EGB



$m\angle EGB = 120°$

$x + 20 + 3x = 180$

$4x + 20 = 180$
$-20 \quad -20$

$\frac{4x}{4} = \frac{160}{4}$

$x = 40$

May 28-3:00 PM