

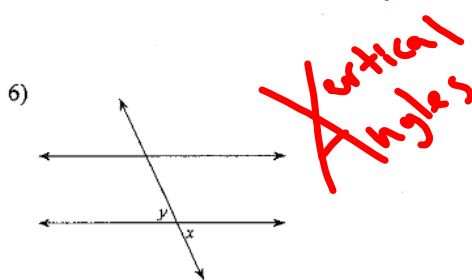
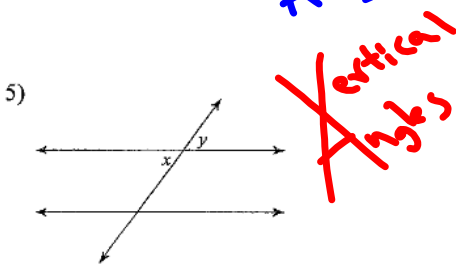
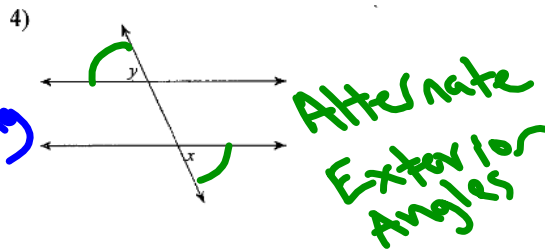
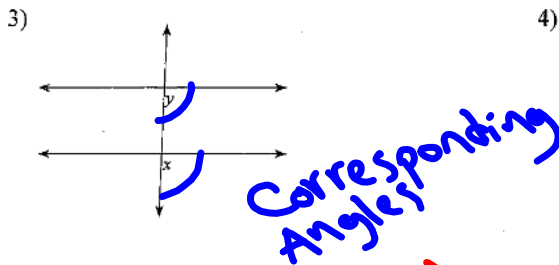
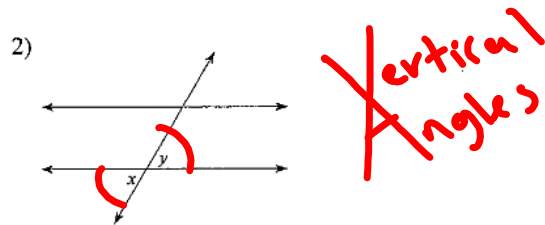
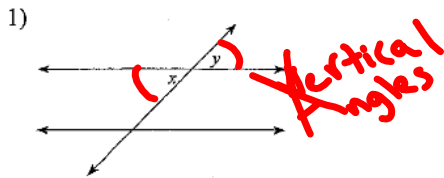
Geometry

Name _____ ID: 1

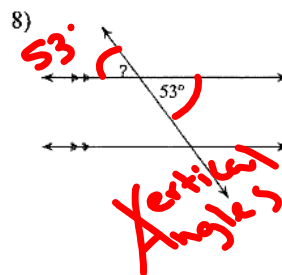
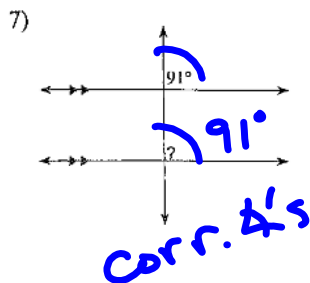
Parallel Lines Classwork

Date _____ Period _____

Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.



Find the measure of each angle indicated.



9) **Alternate Interior Angles**

10) **Vertical Angles**

Solve for x.

11) **Corr. A's**

$$8x+5 = 9x-7$$

$$\begin{array}{r} -8x \quad -8x \\ \hline 5 = x-7 \\ +7 \quad +7 \\ \hline 12 = x \end{array}$$

12) **Linear Pair**

$$14x+4+50=180$$

$$14x+54=180$$

$$\begin{array}{r} -54 \quad -54 \\ \hline 14x = 126 \\ \hline x = 9 \end{array}$$

13) **Consecutive Interior A's**

$$x+67+120=180$$

$$x+187=180$$

$$\begin{array}{r} -187 \quad -187 \\ \hline x = -7 \end{array}$$

14) **Alternate Exterior Angles**

$$8+12x = 13$$

$$\begin{array}{r} -12x \quad -12x \\ \hline 8 = 5 \\ \hline x = 8 \end{array}$$

Find the measure of the angle indicated in bold.

15) **Corr. A's**

$$15x+5 = 12+14x$$

$$\begin{array}{r} -14x \quad -14x \\ \hline x+5 = 12 \\ -5 \quad -5 \\ \hline x = 7 \end{array}$$

16) **Consecutive Int. A's**

$$x+119+x+71=180$$

$$2x+190=180$$

$$\begin{array}{r} -190 \quad -190 \\ \hline 2x = -10 \\ \hline x = -5 \end{array}$$

17) **Linear Pair**

$$20x+24x+4=180$$

$$44x+4=180$$

$$\begin{array}{r} -4 \quad -4 \\ \hline 44x = 176 \\ \hline x = 4 \end{array}$$

18) **Alternate Int. A's**

$$10x-1 = 9x+7$$

$$\begin{array}{r} -9x \quad -9x \\ \hline x-1 = 7 \\ +1 \quad +1 \\ \hline x = 8 \end{array}$$